ASC Competition Commercial, Region 7	REQUEST FOR INFORMATION FOR PHX Sky Train - Stage 2			R.F.I.. NO: ISSUING SCHOOL: ANSWER
HENSEL PHELPS Plan. Build. Manage.	SHEETS: B02-MSSU0003, MSSU0803	DETAILS / SECTIONS:	SPECIFICATIONS REF:	
TITLE OR SECTION OF WORK: TAXIWAY U PIER 1 CAP REINFORCEMENT LAP CONFIRMATION				
PERTENENT PROBLEM SECTION: QUALITY CONTROL	ISSUED BY: DATE:	ANSWER		

WRITTEN DESCRIPTION OF PROBLEM - ATTACH SKETCHES AS REQUIRED:

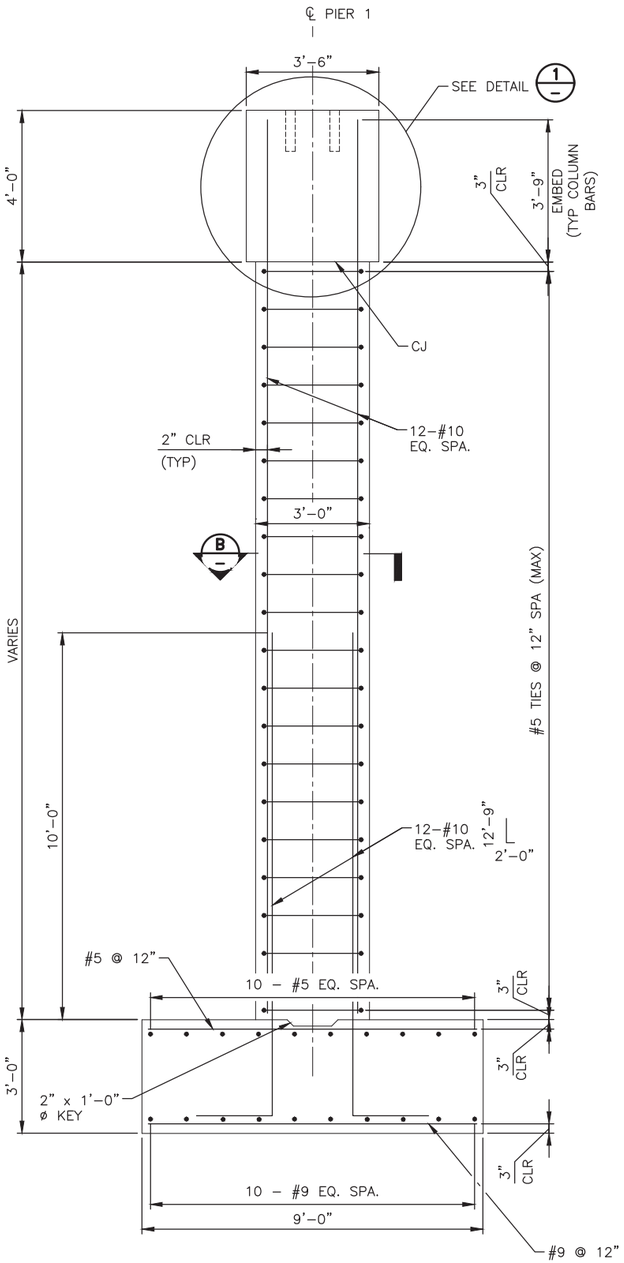
Per B02-MSSU0803, there are to be 6-#9 top reinforcement and 6-#10 bottom reinforcement of the Pier 1 Cap (see SK-01). Per Bar Splice Table on B02-MSSU0003, the top #9s are to have 91" lap and the bottom #10s are to have 82" lap (see SK-02). However per current field conditions, the top reinforcement have 90" lap.

1. Please confirm it is structurally acceptable to have 90" lap splice between top #9s of the Taxiway U Pier 1 Cap.

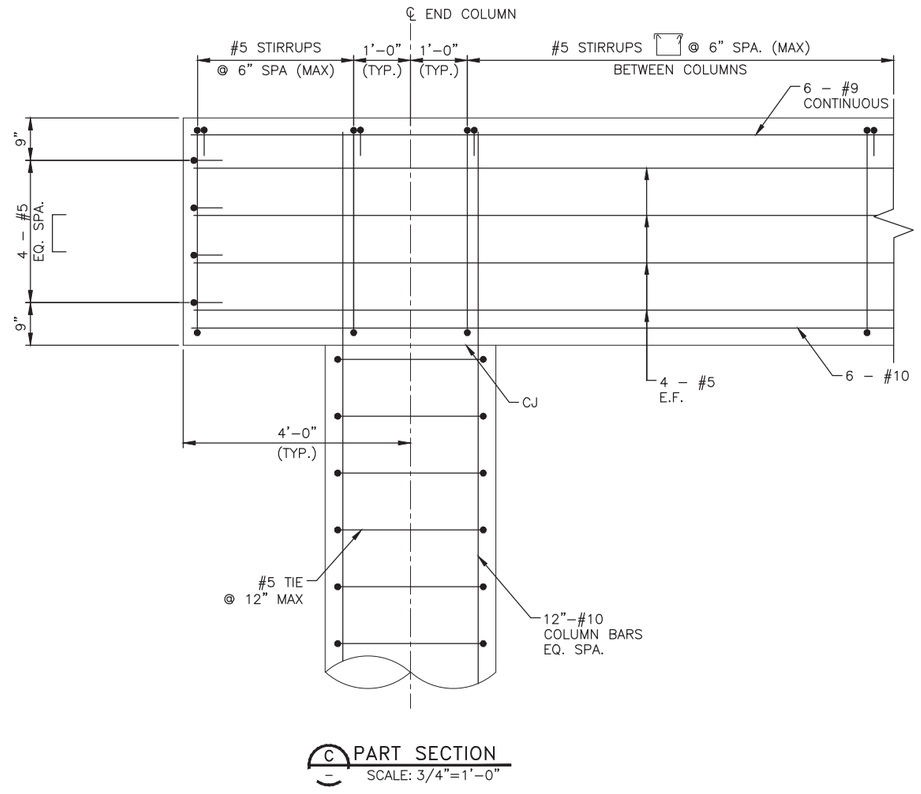
A/E RESPONSE:

BY: **DATE:**

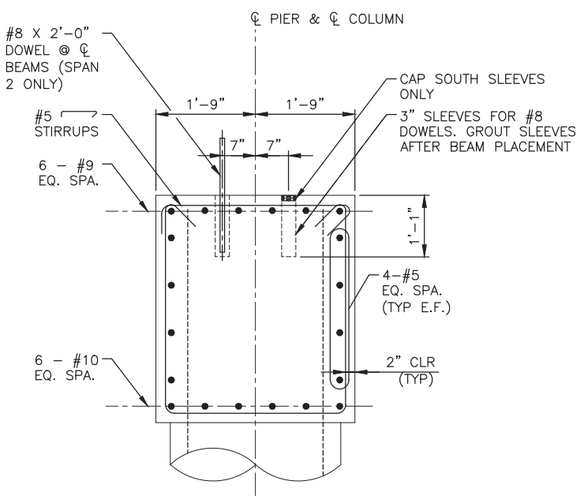
DISTRIBUTION:



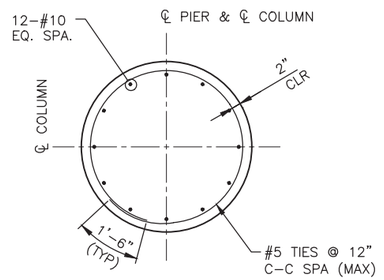
A TAXIWAY "U" & 'V' UNDERCROSSING PIER SECTION
SCALE: 1/2"=1-0"



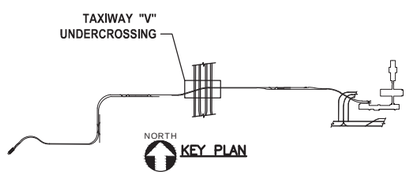
C PART SECTION
SCALE: 3/4"=1'-0"



1 DETAIL 1
SCALE: 3/4"=1'-0"



B SECTION B
SCALE: 3/4"=1'-0"



HORIZONTAL SCALE IN FEET
0 20 40

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.

NO.	DATE
ISSUED FOR CONSTRUCTION	03/02/18
SUBMITTED FOR REVIEW	12/15/17
REVISIONS / SUBMISSIONS	DATE

Design Consultant: Gannett Fleming

Design Sub-Consultant

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT

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

Designed by: PB
Drawn by: JRR
Checked by: SWS
Date: 03/02/2018
Dwg scale: AS SHOWN
CIP No.: AV100000011
KIVA No.: 07-5204

STAGE 2 - B02 DESIGN SUBMISSION

GUIDEWAY
TAXIWAY 'U' & 'V' UNDERCROSSING
TAXIWAY 'U' & 'V' PIER SECTIONS

SK-01

Package: B02 - MSSU0803
Sheet Reference No: V1 - 076 of 083

PLOT DATE: Mar 01, 2018 FILE PATH: C:\pwworking\gfpw01\jrojas\d0673541\AV100000011-S-2-MSSU0803.dwg jrojas

ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ADOT	ARIZONA DEPARTMENT OF TRANSPORTATION
APPROX	APPROXIMATE
APS	ARIZONA PUBLIC SERVICE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BF	BACK FACE
BM	BENCHMARK, BEAM
BOT	BOTTOM
BRG	BEARING
C–C	CENTER TO CENTER
CF	CUBIC FEET
CIP	CAST IN PLACE
CIP	CONSTRUCTION JOINT, CONTROL JOINT
℄	CENTERLINE
CLR	CLEAR, CLEARANCE
CLSM	CONTROLLED LOW STRENGTH MATERIAL
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
COP	CITY OF PHOENIX
CTR	CENTER
CY	CUBIC YARD
DEMO	DEMOLITION
DIA	DIAMETER
DIM	DIMENSION
DTL	DETAIL
(E)	EXISTING
E	EAST
EF	EACH FACE
EA	EACH
EB	EASTBOUND
ELEV	ELEVATION
EQ	EQUAL
EXST	EXISTING
ES	EACH SIDE
FND	FOUNDATION
FO	FIBER OPTICS
FTG	FOOTING
FS	FAR SIDE
FF	FRONT FACE
GA	GAUGE
GAL	GALLON
GIR	GIRDER
HORZ	HORIZONTAL
LF	LINEAR FEET
LL	LIVE LOAD
LLV	LONG LEG VERTICAL
LOC	LOCATE, LOCATION, LIMIT OF CONSTRUCTION
LONG	LONGITUDINAL
LT	LEFT
LVC	LENGTH OF VERTICAL CURVE
MAG	MARICOPA ASSOCIATION OF GOVERNMENTS
MAINT	MAINTENANCE
MAX	MAXIMUM
MED	MEDIUM
MIN	MINIMUM
MISC	MISCELLANEOUS
N/A	NOT APPLICABLE
NB	NORTHBOUND
NE	NORTHEAST
NF	NEAR FACE
NIC	NOT IN CONTRACT
NS	NEAR SIDE
NTP	NOTICE TO PROCEED
NTS	NOT TO SCALE
NW	NORTHWEST
N	NORTH
OC	ON CENTER
OD	OUTSIDE DIAMETER, OUTSIDE DIMENSION
OPS	OPERATIONS
OSHA	OCCUPATIONAL SAFETY AND HEALTH ACT
O–O	OUT TO OUT
PC	POINT OF CURVATURE, PRECAST, PRECAST CONCRETE
PCC	PORTLAND CEMENT CONCRETE
PCF	POUNDS PER CUBIC FOOT
P/C	PRECAST
PGL	PROFILE GRADE LINE
PH	PHASE
PI	POINT OF INTERSECTION
P/PM	PROGRAM/PROJECT MANAGER
POC	POINT OF REVERSE CURVE
PROP	PROPOSED
P/S	PRESTRESSED
PSI	POUNDS PER SQUARE INCH
PSHIA	PHOENIX SKY HARBOR INTERNATIONAL AIRPORT
PST	PHX SKY TRAIN
PT	POINT, POINT OF TANGENCY
P/T	POST–TENSIONED
℄	PLATE
PVC	POLYVINYL CHLORIDE, POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
QTY	QUANTITY
R	RADIUS
RD	ROAD
RDWY	ROADWAY
REBAR	CONCRETE REINFORCING BAR
REINF	REINFORCE, REINFORCED, REINFORCING, REINFORCEMENT
ROW	RIGHT OF WAY
RW	RETAINING WALL
S	SLOPE, SOUTH
SB	SOUTHBOUND
SC	SPIRAL TO CURVE
SCH	SCHEDULE
SE	SOUTHEAST, SUPERELEVATION
SF	SQUARE FOOT, SQUARE FEET
SHB	SKY HARBOR BOULEVARD
SHLD	SHOULDER
SHT	SHEET
SPA	SPACING
SPEC	SPECIFICATION
SQ	SQUARE
SR	STATE ROUTE
SRP	SALT RIVER PROJECT
ST	STREET
STA	STATION, STATIONING
STD	STANDARD
SWG	SOUTHWEST GAS
SY	SQUARE YARD
TAN	TANGENT
TBD	TO BE DETERMINED
TC	TANGENT TO CURVE
TOC	TOP OF CONCRETE
TOPO	TOPOGRAPHY
TP	TURNING POINT
TS	TANGENT TO SPIRAL
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
USGS	UNITED STATES GEOLOGICAL SURVEY
UTIL	UTILITY
VC	VERTICAL CURVE
VERT	VERTICAL
W	WEST, WIDE, WIDTH
WB	WESTBOUND
WP	WORKING POINT

LEGEND

- ANNOTATION – PGL SYMBOL
- SECTION ARROW
- ANNOTATION – TAIL SECTION FOR BUBBLE
- LETTER OR NUMBER INDICATING SECTION OR DETAIL
- DRAWING NUMBER WHERE SECTION OR DETAIL SHOWN OR REFERRED. BLANK IF SHOWN ON SAME SHEET.
- TOP / BOT — SLOPE CALLOUT
- DETAIL – BREAKLINE SYMBOL
- ∠ ANGLE

BAR SPLICE TABLE (BASED ON f'c = 4000 psi)

BAR SIZE	MINIMUM LAP SPLICE LENGTH (IN)				MINIMUM EMBEDMENT LENGTH (IN)	
	CLASS B SPLICE		CLASS C SPLICE			
	TOP BAR	OTHER BAR	TOP BAR	OTHER BAR	TOP BAR	OTHER BAR
#3	17	12	23	16	13	10
#4	22	16	29	21	17	12
#5	28	20	36	26	22	15
#6	33	24	43	31	26	18
#7	42	30	55	39	32	23
#8	55	39	72	51	42	30
#9	70	50	91	65	54	38
#10	88	63	115	82	68	49
#11	108	77	141	101	83	60

BAR SPLICE TABLE (BASED ON f'c = 6000 psi)

BAR SIZE	MINIMUM LAP SPLICE LENGTH (IN)				MINIMUM EMBEDMENT LENGTH (IN)	
	CLASS B SPLICE		CLASS C SPLICE			
	TOP BAR	OTHER BAR	TOP BAR	OTHER BAR	TOP BAR	OTHER BAR
#3	17	12	23	16	13	12
#4	23	16	29	21	17	12
#5	28	20	36	26	21	15
#6	34	24	45	31	26	18
#7	39	28	51	36	30	21
#8	45	33	58	43	34	25
#9	56	41	74	53	43	31
#10	72	51	94	67	55	39
#11	88	63	114	82	67	48

SPLICE TABLE NOTES:

1. REINFORCEMENT STEEL LAP SPLICES AND EMBEDMENTS SHOWN IN THESE TABLES APPLY FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE. FOR OTHER CONCRETE STRENGTHS, PROVIDE LAP AND EMBEDMENT LENGTHS PER AASHTO.
2. TOP HORIZONTAL OR NEARLY HORIZONTAL REINFORCEMENT HAVE MORE THAN 12" OF CONCRETE CAST BELOW THE REINFORCEMENT.
3. INCREASE LAP LENGTHS BY 25% FOR 3–BAR BUNDLE SCENARIOS.
4. IF MORE THAN 50% OF TOP OR BOTTOM BARS IN ONE DIRECTION ARE SPLICED WITHIN THE REQUIRED LAP LENGTH, THEN CLASS C SPLICES SHALL BE USED, OTHERWISE CLASS B SPLICES ARE ACCEPTABLE.

Registered Professional Engineer (Civil) — Brad Wallis — 23174 — Date Signed 09/30/18 — Expires 09/30/19

Design Sub–Consultant

Design Consultant — Gannett Fleming

NO.	DATE
REVISIONS / SUBMISSIONS	
SUBMITTED FOR REVIEW	12/15/17
ISSUED FOR CONSTRUCTION	03/02/18

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PHX DWT BYR
CITY OF PHOENIX AVIATION DEPARTMENT

PHX SKY TRAIN
STAGE 2 DESIGN
500 S. 24TH STREET
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Designed by: PB
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Date: 03/02/2018
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STAGE 2 – B02 DESIGN SUBMISSION

GUIDEWAY
TAXIWAYS "U" & "V" UNDERCROSSING
GENERAL NOTES 3

SK-02

Package: B02 - MSSU0003
Sheet Reference No: V1 - 064 of 083

PLOT DATE: Feb 28, 2018 FILE PATH: C:\pwworking\gfpw01\jrojas\d0673541\AV10000011–S–2–MSSU0003.dwg jrojas