GENERAL NOTES:

ARIZONA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, EDITION OF 2021.

DESIGN SPECIFICATIONS – AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION. AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES, 2009.

LIVE LOAD – 90 POUNDS PER SQUARE FOOT.

WIND LOAD – 50 PSF APPLIED TO ENTIRE VERTICAL TRUSS SURFACE AND ENTIRE LENGTH

SEISMIC DESIGN CATEGORY B

ALL CONCRETE SHALL BE CLASS "S" UNLESS NOTED OTHERWISE.

ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO SPECIFICATION M270 (ASTM A709) GRADE 50, OR ASTM A847 UNLESS NOTED OTHERWISE.

ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY. ANSI/AASHTO/AWS D1.5–96 BRIDGE WELDING CODE.

REINFORCING STEEL SHALL CONFORM TO ASTM SPECIFICATION A615. ALL REINFORCING SHALL BE FURNISHED AS GRADE 60.

ALL BENDS AND HOOKS SHALL MEET THE REQUIREMENTS OF AASHTO ARTICLE 5.10.2 ALL BEND DIMENSIONS FOR REINFORCING STEEL SHALL BE OUT–TO–OUT OF BARS. ALL PLACEMENT DIMENSIONS FOR REINFORCING STEEL SHALL BE TO CENTER OF BARS UNLESS NOTED OTHERWISE.

ALL REINFORCING STEEL SHALL HAVE 2 INCH CLEAR COVER UNLESS NOTED OTHERWISE.

STRESSES:

SUPERSTRUCTURE	F'c = 4,500 PSI
ABUTMENTS	F'c = 3,500 PSI
PIERS & DRILLED SHAFTS	F'c = 3,500 PSI
EQUIPMENT PADS	F'c = 3,500 PSI
ALL OTHER CLASS "S" CONCRETE	F'c = 3,500 PSI
GRADE 60	Fy = 60,000 PSI
STRUCTURAL STEEL (NOT INCLUDING STEEL TRUSS)	Fy = 36,000 PSI

DIMENSIONS SHALL NOT BE SCALED FROM DRAWINGS.

CHAMFER ALL EXPOSED CORNERS ¾" UNLESS NOTED OTHERWISE.

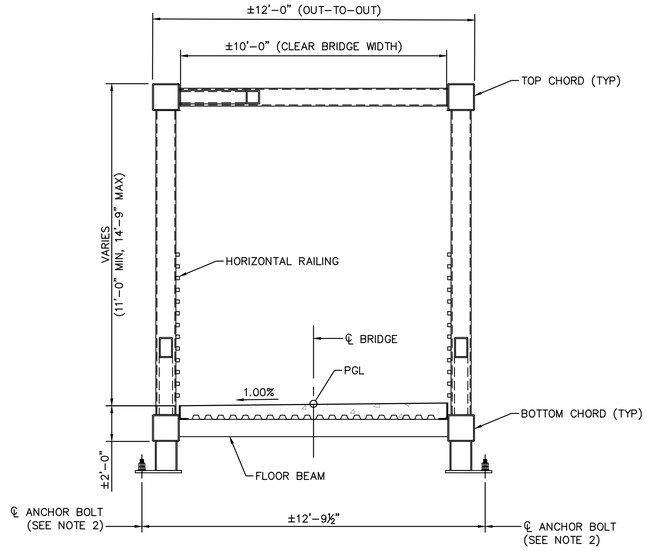
STEEL TRUSS TO BE DESIGNED, FABRICATED, DELIVERED AND ERECTED BY THE FABRICATOR. STEEL TRUSS AND ALL COMPONENTS SHALL BE PAINTED STEEL PER ASTM A847 AND AASHTO M270 GRADE 50, UNLESS NOTED OTHERWISE.

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SUPERSTRUCTURE DIMENSIONS AND ELEVATIONS, AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

STEEL TRUSS SUPERSTRUCTURE SHOWN IS CONCEPTUAL ONLY. CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS ADDRESSING THE FOLLOWING STEEL TRUSS DETAILS: LOCATION AND SIZE OF BEARINGS AND ANCHOR BOLTS, DETAILS FOR ATTACHING TO ABUTMENTS, BRIDGE DEPTH AND PROFILE ADJUSTMENTS OR TRANSITIONS (IF ANY).

COST OF STEEL BRIDGE TRUSS, METAL RAILING, BRIDGE AESTHETICS, METAL HANDRAIL, BEARING DEVICES, ANCHOR BOLTS, DECK JOINT ASSEMBLY, STAY–IN–PLACE METAL DECK FORMS, CONCRETE BRIDGE DECK, SHOP AND WORKING DRAWING PREPARATION, AND WELDING IS ALL INCLUDED IN ITEM 9240050 – MISCELLANEOUS WORK (STEEL TRUSS BRIDGE).

ITEM 9240050 – MISCELLANEOUS WORK (STEEL TRUSS BRIDGE) DOES NOT INCLUDE THE COST OF AESTHETIC TOLLESON LETTERING ON THE BRIDGE. COST OF BRIDGE LETTERING, INCLUDING MATERIALS AND INSTALLATION, IS INCLUDED IN ITEM 9240051 – MISCELLANEOUS WORK (AESTHETIC TOLLESON LETTERING).



BRIDGE TYPICAL SECTION

SCALE: ⅜" = 1'–0"

NOTES:

1. TYPICAL SECTION PROVIDES GENERAL TRUSS CONFIGURATION AND DESIGN REQUIREMENTS.
2. ANCHOR BOLT LAYOUT AND DETAILS SHALL BE COORDINATED WITH PREFABRICATED STEEL TRUSS BRIDGE MANUFACTURER. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES.
3. BEARING SEAT ELEVATION AT ABUTMENTS SET BASED ON ±2'–8¾" DIMENSION FROM PROFILE GRADE LINE TO BOTTOM OF BRIDGE BEARING PLATES. CONTRACTOR SHALL COORDINATE WITH PREFABRICATED STEEL TRUSS BRIDGE MANUFACTURER AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
4. MINIMUM CLEARANCE IS CALCULATED BASED ON A MAXIMUM DISTANCE OF ±2'–0" FROM PGL TO LOWEST BRIDGE BOTTOM CHORD.

APPROXIMATE QUANTITIES

	STRUCTURAL EXCAVATION	STRUCTURAL BACKFILL			STRUCTURAL STEEL	REINFORCED STEEL	DRILLED SHAFT 48" DIA.
			F'c = 3,500 PSI	F'c = 4,500 PSI			
UNIT	CY	CY	CY	CY	LBS	LBS	L.FT.
ABUTMENT 1	2	2	16			2,400	30
ABUTMENT 2	6	2	16			2,400	30
SUPERSTRUCTURE							
NORTH ELEVATOR SHAFT & MECHANICAL ROOM	16	10	5	9	1,968	5,766	
SOUTH ELEVATOR SHAFT, MECHANICAL ROOM, AND ELECTRICAL ROOM	23	14	8	11	1,151	7,218	
TOTAL	47	28	45	20	3,119	17,784	60
AS–BUILT TOTAL							

MISCELLANEOUS WORK (FULLY GROUTED CONCRETE MASONRY UNIT)	4,362 SQ.FT.
MISCELLANEOUS WORK (STEEL TRUSS BRIDGE)	1 LS
MISCELLANEOUS WORK (AESTHETIC LETTERING)	1 LS
MISCELLANEOUS WORK (WALL AND ROOF FINISHES)	1 LS
MISCELLANEOUS WORK (1½" X 20 GA COMPOSITE STEEL FLOOR DECK)	213 SQ.FT.
MISCELLANEOUS WORK (1½" X 20 GA STEEL ROOF DECK)	254 SQ.FT
MISCELLANEOUS WORK (STEEL STAIRS)	2 EA
MISCELLANEOUS WORK (DMS, 24'–3" X 5'–4")	2 EA
MISCELLANEOUS WORK (PEDESTRIAN FENCE)	43 L.FT.
MISCELLANEOUS WORK (ELEVATOR & MACHINE ROOM EQUIPMENT)	2 EA
MISCELLANEOUS WORK (CONCRETE EQUIPMENT PAD)	3 EA
MISCELLANEOUS WORK (DOORS AND HARDWARE)	3 EA

LEGEND:

DETAIL MARKER — A / # — DETAIL NUMBER / DRAWING NUMBER

SECTION MARKER — A / # — DETAIL NUMBER / DRAWING NUMBER

NOTE: A LINE (–) IN PLACE OF THE DRAWING NUMBER INDICATES THAT THE SECTION OR DETAIL IS LOCATED ON THE SAME DRAWING THAT THE SECTION OR DETAIL IS CUT.

NO.	DESCRIPTION OF REVISION - REVISED DETAILS	MADE BY - JOT	DATE - 10/26
1			

Registered Professional Engineer (Civil) CERTIFICATE NO. 68796 CHARLES H. GOLEK Date Signed 10/13/26 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	JOT	10/26
DRAWN	JOT	10/26
CHECKED	CHG	10/26

Kimley»Horn

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ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

BRIDGE GENERAL NOTES & QUANTITIES

ROUTE -
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA TOL	CDS TOL-0(200)T	14	70	

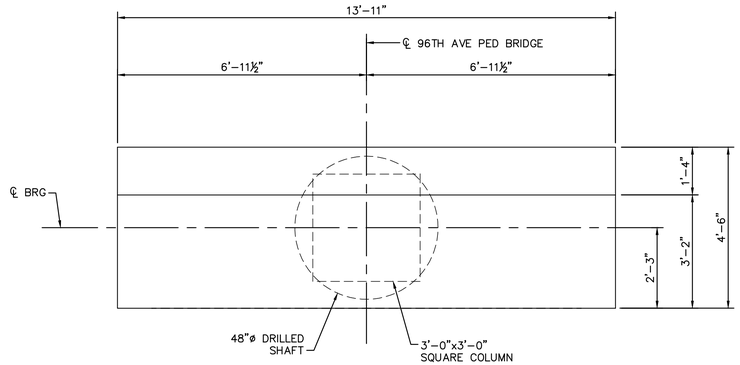
LOCATION: VAN BUREN AT 96TH AVE, TOLLESON

DWG NO. ST02

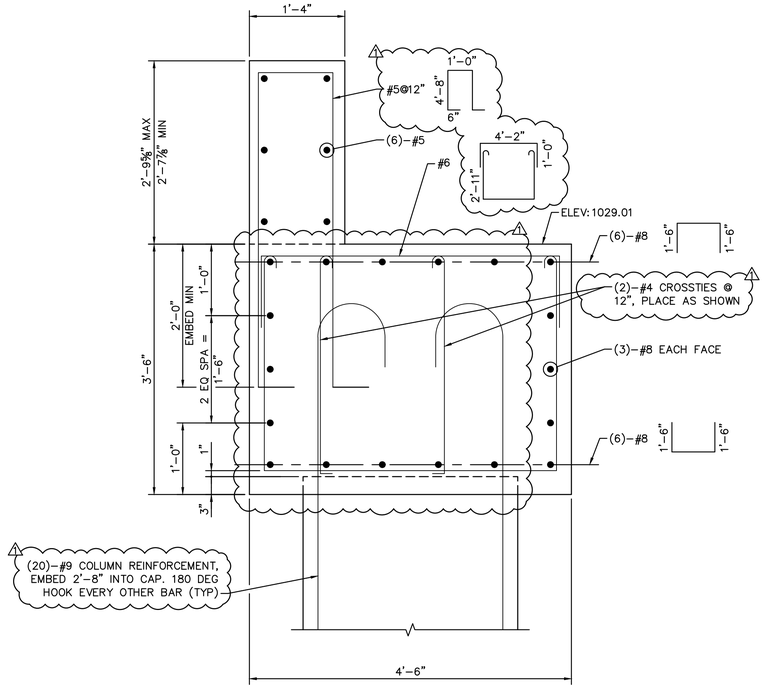
TRACS NO. T0619 01C

14 OF 70

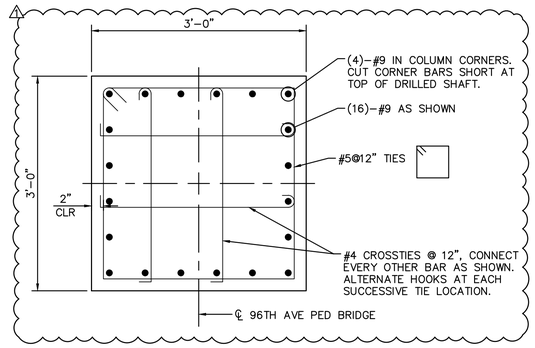
DATE SAVED:10/13/26 K:\PHX_STRUCTURE\291151013 – 96TH AVE PEDESTRIAN BRIDGE\CADD\12–SHEETS\STRUCTURES\291151013_ST05_ALT 2.DWG



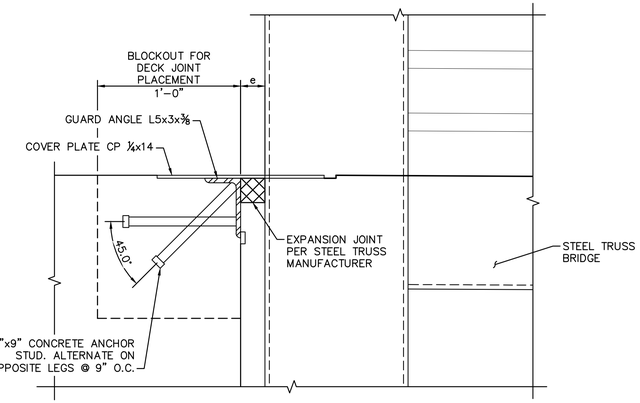
ABUTMENT 2 PLAN
SCALE: ½" = 1'-0"



A SECTION
SCALE: 1" = 1'-0"

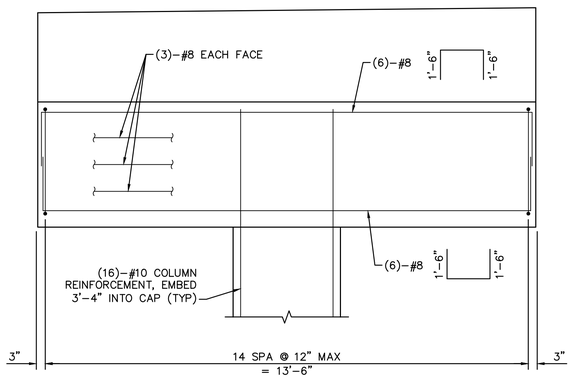


B SECTION
SCALE: 1" = 1'-0"

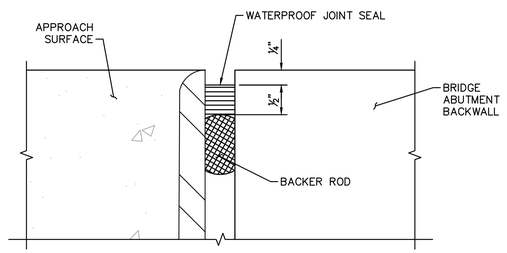


STEEL BRIDGE JOINT DETAIL
SCALE: N.T.S.

ABUTMENT 2 ELEVATION
SCALE: ½" = 1'-0"



ABUTMENT 2 ELEVATION
SCALE: ½" = 1'-0"



ABUTMENT JOINT DETAIL
SCALE: N.T.S.

NO.	DESCRIPTION OF REVISION - REVISED DETAILS	MADE BY - JOT	DATE - 10/26

Registered Professional Engineer (Civil) CERTIFICATE NO. 68796 CHARLES H. GOLEK date signed 10/15/26 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	JOT	10/26
DRAWN	JOT	10/26
CHECKED	CHG	10/26

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ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

ABUTMENT 2 PLAN & ELEVATION

ROUTE	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
-	ARIZ.	0000 MA TOL	CDS TOL-0(200)T	16	70	

F.H.W.A. Arizona Division

MILEPOST

STRUCTURE NO.

LOCATION: VAN BUREN AT 96TH AVE, TOLLESON

DWG NO. ST02

TRACS NO. T0619 01C

DATE SAVED:10/15/26 K:\PHX_STRUCTURE\291151013 – 96TH AVE PEDESTRIAN BRIDGE\CADD\12-SHEETS\STRUCTURES\291151013_AB01.DWG

SPECIAL INSPECTIONS

1. THE OWNER SHALL EMPLOY SPECIAL INSPECTORS, QUALIFIED TO THE SATISFACTION OF THE BUILDING OFFICIAL, WHO SHALL PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION FOR THE WORK INDICATED BY THE SPECIAL INSPECTIONS TABLES ON THE APPROVED DESIGN DRAWINGS.
2. SPECIAL INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED ACCREDITED INDEPENDENT AGENCY. INSPECTORS FOR EACH SYSTEM AND MATERIAL SHALL BE INTERNATIONAL CODE COUNCIL (ICC) CERTIFIED OR OTHERWISE APPROVED BY THE BUILDING OFFICIAL.
3. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
4. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, CONTRACTOR, OWNER, AND ENGINEER OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND TO THE BUILDING OFFICIAL.
5. SEE PROJECT SPECIFICATIONS AND REFERENCED STANDARDS FOR FREQUENCY OF TESTING.
6. AT THE CONCLUSION OF CONSTRUCTION, A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF PREVIOUSLY NOTED DISCREPANCIES SHALL BE SUBMITTED.
7. THE FOLLOWING TYPES OF WORK SHALL BE INSPECTED BY A SPECIAL INSPECTOR IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE:

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION (IBC TABLE 1705.3)

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCE
INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	-	X	ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
REINFORCING BAR WELDING: A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 B. INSPECT SINGLE-PASS FILLET WELDS, MXIMUM 5/16" C. INSPECT ALL OTHER WELDS	- - X	X X -	AWS D1.4 ACI 318: 26.6.4	-
INSPECT ANCHORS CAST IN CONCRETE.	-	X	ACI 318: 17.8.2	-
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.	X -	- X	ACI 318:17.8.2.4 ACI 318: 17.8.2	-
VERIFY USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP & AIR CONTENT TESTS, & DETERMINE THE TEMP. OF THE CONCRETE.	X	-	ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	1908.10
INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.11.1.2(b)	-

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS (IBC TABLE 1705.6)

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	–	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	–	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	–	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	–
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	–	X

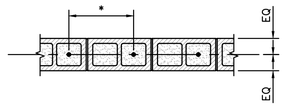
MINIMUM MASONRY SPECIAL INSPECTIONS

INSPECTION TASK	FREQUENCY (a) CONTINUOUS	FREQUENCY (a) PERIODIC	REFERENCE FOR CRITERIA TMS 402/ ACI 530/ ASCE 5	REFERENCE FOR CRITERIA TMS 602/ ACI 530.1/ ASCE 6
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS		X		ART. 1.5
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
A. PROPORTIONS OF SITE-PREPARED MORTAR		X		ART. 2.1, 2.6A
B. CONSTRUCTION OF MORTAR JOINTS		X		ART. 3.3B
C. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES		X		ART. 2.4B, 2.4H
D. LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		X		ATR. 3.4, 3.6A
E. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X(b)	X(c)		ART. 2.1C
3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
A. GROUT SPACE		X		ART. 3.2D, 3.2F
B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES		X	SEC. 6.1	ART. 2.4, 3.4
C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		X	SEC. 6.1, 6.2.1, 6.2.6, 6.2.7	ART. 3.2E, 3.4, 3.6A
D. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS		X		ART. 2.6B, 2.4G.1.b
E. CONSTRUCTION OF MORTAR JOINTS		X		ART. 3.3B
4. VERIFY DURING CONSTRUCTIONS:				
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS		X		ART. 3.3F
B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		X	SEC. 1.2.1(e), 6.1.4.3, 6.2.1	
C. WELDING OF REINFORCEMENT	X		SEC. 8.1.6.7.2, 9.3.3.4(c) 11.3.3.4(B)	
D. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C))		X		ART. 1.8C, 1.8D
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		X		ART. 1.4B.2.a.3, 1.4B.2.b.3, 1.4B.2.c.3, 1.4B.3, 1.4.B.4

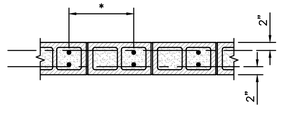
(a) FREQUENCY REFERS TO THE FREQUENCY OF SPECIAL INSPECTION, WHICH MAY BE CONTINUOUS DURING THE TASK LISTED OR PERIODIC DURING THE LISTED TASK, AS DEFINED IN THE TABLE.
(b) REQUIRED FOR THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.
(c) REQUIRED AFTER THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.

MASONRY WALL (MW) SCHEDULE

ADDITIONAL INFORMATION PER TYPICAL DETAILS.



SINGLY REINFORCED WALLS



DOUBLY REINFORCED WALLS

NOTE: PROVIDE LADDER REINFORCING PER GENERAL STRUCTURAL NOTES IN ADDITION TO HORIZONTAL REINFORCING PER SCHEDULE.

MARK	THICKNESS	TYPE	REINFORCING VERTICAL	REINFORCING HORIZONTAL	REMARKS
MW1	0'-7⅝"	CMU	#5@24"	PER G.S.N.	–
MW2	0'-7⅝"	CMU	#5@24"	PER G.S.N., MAX BOND BEAM SPACING OF 4'-0"	SOLID GROUT ALL CELLS
MW3	0'-7⅝"	CMU	#5@24"	PER G.S.N., MAX BOND BEAM SPACING OF 2'-0"	–

LEDGER (L) SCHEDULE

WELD PLATE NOTE: THE JOIST OR BEAM IS NOT CONSIDERED A SUPPORT POINT FOR A STEEL LEDGER ANGLE AND MAY NOT BE USED IN PLACE OF A WELD PLATE. REQUIRED LAYOUT OF WELD PLATES OR ANCHOR RODS AT MASONRY WALL PER TYPICAL DETAILS. J-BOLTS ARE NOT ACCEPTABLE.

MARK	LEDGER SIZE	CONNECTION
L1	L3½ X 3½ X ¼	WELD PLATES AT 24" O.C.
L2	L3½ X 3½ X ¼	WELD PLATES AT 48" O.C.
L3	L4 X 4 X ⅜	WELD PLATES AT 24" O.C.

LINTEL (LT) SCHEDULE

NOTE: LINTEL TYPE PER TYPICAL DETAILS

MARK	LINTEL SIZE	REMARKS
LT1	"H" = 16" (2)-#5 BOTTOM	PER TYPICAL DETAIL 6 / 21

WALL FOOTING (WF) SCHEDULE

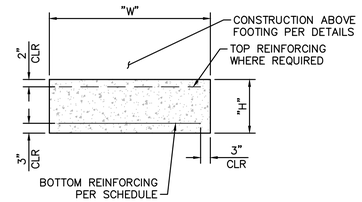
NOTES: SCHEDULED REINFORCING IS BOTTOM REINFORCING U.N.O., REINFORCING LAYOUT AND CLEARANCES PER TYPICAL DETAILS.

MARK	DIMENSIONS "W"	DIMENSIONS "L"	DIMENSIONS "H"	REINFORCING LONGITUDINAL	REINFORCING TRANSVERSE	REMARKS
WF1	2'-0"	CONTINUOUS	1'-0"	(3)-#5	#4@12"	–
WF2	2'-9"	CONTINUOUS	1'-0"	(4)-#5	#4@12"	–

COLUMN BASE PLATE (BP) SCHEDULE

MARK	BASE PLATE THICKNESS	BASE PLATE LENGTH "L"	BASE PLATE WIDTH "W"	BASE PLATE DETAIL	ANCHOR RODS NUMBER	ANCHOR RODS DIAMETER (IN)	ANCHOR RODS EMBEDMENT (IN)	ANCHOR RODS TYPE	REMARKS
BP1	0'-0 3/4"	1'-1"	1'-1"	A.4/32	4	1	9	B	–
BP2	0'-0 3/4"	1'-4"	1'-4"	A.4/32	4	⅞	9	B	–

FOOTING (F) SCHEDULE



MARK	DIMENSIONS "W"	DIMENSIONS "L"	DIMENSIONS "H"	REINFORCING	REMARKS
F1	4'-0"	4'-0"	1'-2"	#5@12" EW T&B	–
F2	5'-3"	4'-0"	1'-2"	#5@12" EW T&B	–
F3	4'-6"	4'-6"	1'-2"	#5@12" EW T&B	–

MECHANICAL EQUIPMENT WEIGHTS

VERIFY ALL WEIGHTS AND LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL ENGINEER AND ARCHITECT. MECHANICAL UNIT WEIGHTS TO BE MULTIPLIED BY 1.4.

MARK	EQUIPMENT WEIGHT	REMARKS
A	119	–

NO. 1 | DESCRIPTION OF REVISION - REVISED DETAILS | MADE BY - JOT | DATE - 10/26

Registered Professional Engineer (Civil) CERTIFICATE NO. 68796 CHARLES H. GOLEK Date Signed 10/13/26 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	SED	10/26
DRAWN	SED	10/26
CHECKED	CHG	10/26

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ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

GENERAL STRUCTURAL NOTES 3

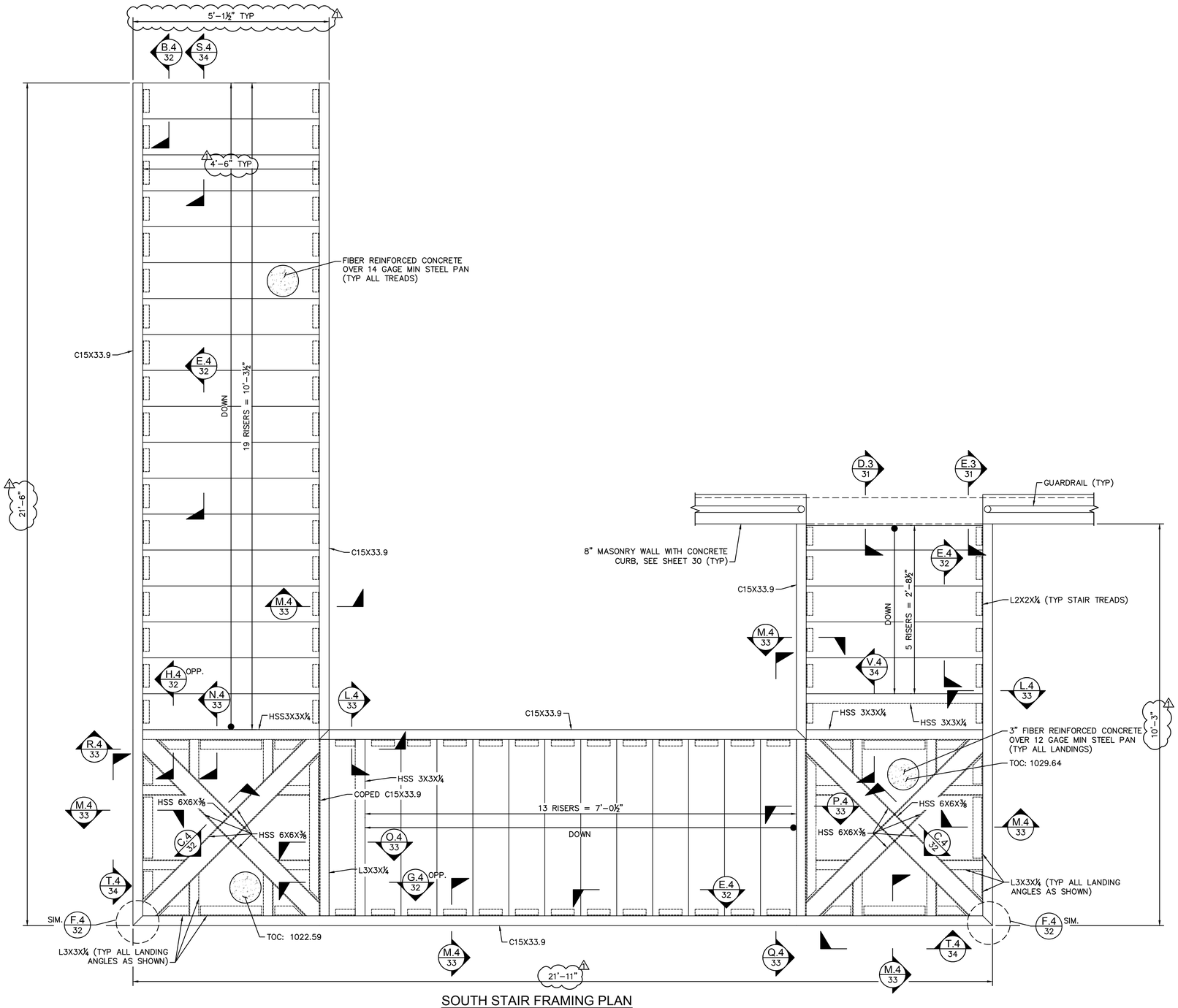
ROUTE -
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA TOL	CDS TOL-0(200)T	19	70	

LOCATION VAN BUREN AT 96TH AVE, TOLLESON
DWG NO. ST07
TRACS NO. T0619 01C
19 OF 70

DATE SAVED:10/13/26 K:\PHX_STRUCTURE\291151013 – 96TH AVE PEDESTRIAN BRIDGE\CADD\12-SHEETS\STRUCTURES\291151013_ST05_ALT 2.DWG



SOUTH STAIR FRAMING PLAN

SCALE: ¾" = 1'-0"

NO.	DESCRIPTION OF REVISION - REVISED DETAILS	MADE BY - JOT	DATE - 10/26
1			

Registered Professional Engineer (Civil) CERTIFICATE NO. 68796 CHARLES H. GOLEK Date Signed 10/13/26 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	SED	10/26
DRAWN	SED	10/26
CHECKED	CHG	10/26

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ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

SOUTH STAIR FRAMING PLAN

ROUTE	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
-	ARIZ.	0000 MA TOL	CDS TOL-0(200)T	26	70	
MILEPOST						
STRUCTURE NO.						

F.H.W.A. Arizona Division

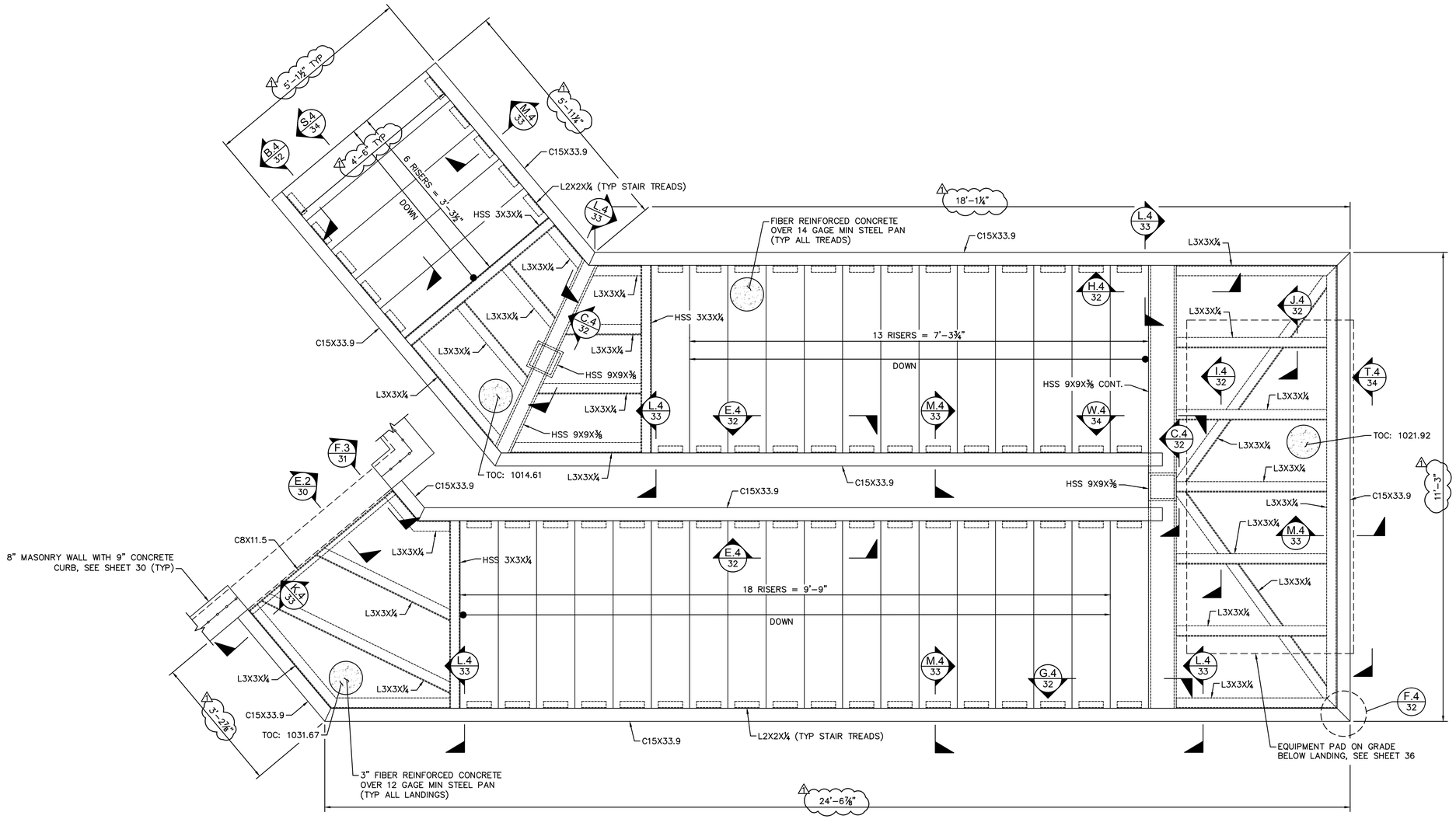
LOCATION: VAN BUREN AT 96TH AVE, TOLLESON

DWG NO. ST14

TRACS NO. T0619 01C

26 OF 70

DATE SAVED:10/13/26 K:\PHX_STRUCTURE\291151013 – 96TH AVE PEDESTRIAN BRIDGE\CADD\12-SHEETS\STRUCTURES\291151012_ST10.DWG



NORTH FRAMING PLAN

SCALE: ¾" = 1'-0"

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1			

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PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

NORTH STAIR FRAMING PLAN

ROUTE	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
-	ARIZ.	0000 MA TOL	CDS TOL-0(200)T	27	70	
MILEPOST						
STRUCTURE NO.						

F.H.W.A. Arizona Division

LOCATION: VAN BUREN AT 96TH AVE, TOLLESON

DWG NO. ST15

TRACS NO. T0619 01C

27 OF 70

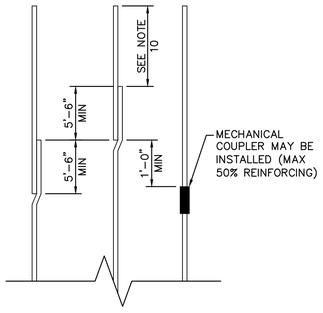
DATE SAVED:10/13/26 K:\PHX_STRUCTURE\291151013 – 96TH AVE PEDESTRIAN BRIDGE\CADD\12-SHEETS\STRUCTURES\291151012_ST10.DWG

DRILLED SHAFT NOTES:

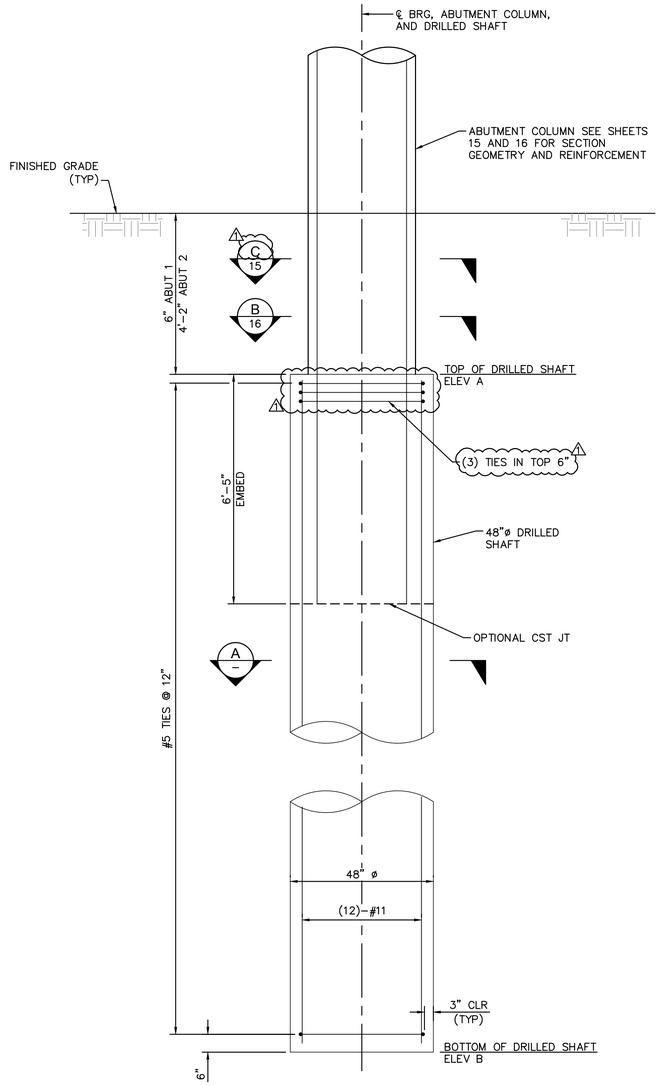
1. THE CONTRACTOR SHALL ORIENT THE DRILLED SHAFT REINFORCING CAGE AS SHOWN TO AVOID CONFLICT WITH THE REINFORCEMENT IN THE BOTTOM OF THE CAP.
2. EXCAVATION OF AN ADJACENT DRILLED SHAFT SHALL NOT BE PERMITTED UNTIL 48 HOURS AFTER THE ADJACENT DRILLED SHAFT HAS BEEN POURED. AN ADJACENT SHAFT IS ANY SHAFT WITHIN FOUR DIAMETERS MEASURED CENTER TO CENTER.
3. SLURRY–ASSISTED DRILLING AND/OR ADVANCING OF TEMPORARY CASING DURING DRILLING MAY BE NECESSARY TO PREVENT CAVING OF SITE SOILS. IF CASING IS USED, THE CASING SHALL BE REMOVED DURING PLACEMENT OF SHAFT CONCRETE.
4. DRILLED SHAFT CONSTRUCTION AND TESTING SHALL BE COMPLETED PER SECTION 609 OF THE ADOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2021.
5. THE COST OF CASING OR SLURRY, IF NEEDED, IS INCLUDED IN THE DRILLED SHAFT ITEM.
6. EXCAVATION REQUIRED TO CONSTRUCT DRILLED SHAFT IS INCLUDED IN THE DRILLED SHAFT ITEM.
7. INTEGRITY TESTING TUBES SHALL BE INSTALLED IN ALL SHAFTS. THE SIZE, TYPE, AND DETAILS OF TUBES SHALL BE PER SECTION 609 OF THE ADOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2021. TUBES SHALL NOT BE ATTACHED TO VERTICAL REINFORCING.
8. THE INTEGRITY TESTING TUBES SHALL BE EXTENDED TO WITHIN 6" OF THE COMPLETED TIP ELEVATION. IF THE TIP ELEVATION IS GREATER THAN 3'–0" BELOW PLAN, SUPPORT REINFORCING FOR THE TUBES SHALL BE INSTALLED TO PROVIDE A MAXIMUM UNSUPPORTED LENGTH OF 3'–0".
9. AFTER THE INTEGRITY TESTING IS COMPLETED AND THE SHAFT HAS BEEN ACCEPTED, ALL TEST TUBES SHALL BE FILLED WITH APPROVED GROUT.
10. DRILLED SHAFT REINFORCING SHALL NOT BE SPLICED IN THE UPPER ½ OF THE SHAFT. LAP SPLICES SHALL BE STAGGERED AS FAR AS POSSIBLE BELOW THIS REGION.

DRILLED SHAFT DATA		
	ELEV A	ELEV B
ABUT 1	1011.88	981.88
ABUT 2	1007.46	977.46

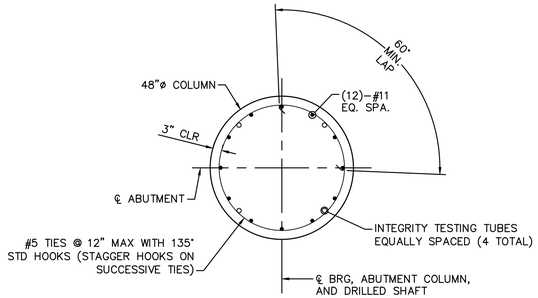
DRILLED SHAFT AXIAL LOAD DATA				
LOCATION	DRILLED SHAFT DIA (IN)	NO REQ'D	(1) STRENGTH DESIGN LOAD BEFORE REDUNDANCY OR GROUP EFFECTS (KIPS)	(2) STRENGTH DESIGN LOAD AFTER REDUNDANCY OR GROUP EFFECTS (KIPS)
ABUT 1	48	1	300	375
ABUT 2	48	1	300	375



RESTRICTION ON SPLICE AT DRILLED SHAFT
SCALE: N.T.S.



TYPICAL DRILLED SHAFT ELEVATION
SCALE: ½" = 1'–0"



A – SECTION
SCALE: ½" = 1'–0"

NO.	DESCRIPTION OF REVISION - REVISED DETAILS	MADE BY - JOT	DATE - 10/26
1			

Registered Professional Engineer (Civil) CERTIFICATE NO. 68796 CHARLES H. GOLEK Date Signed 10/13/26 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	JOT	10/26
DRAWN	SED	10/26
CHECKED	CHG	10/26

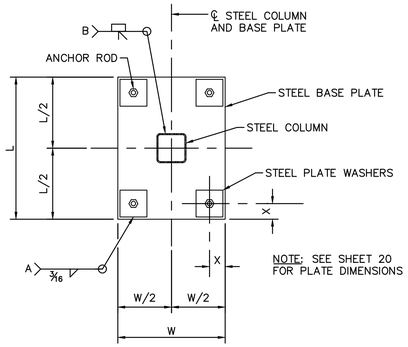
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PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

DRILLED SHAFT DETAILS

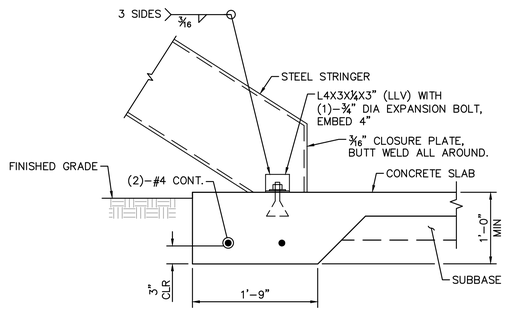
ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
-		ARIZ.	0000 MA TOL	CDS TOL-0(200)T	29	70	
MILEPOST	LOCATION	VAN BUREN AT 96TH AVE, TOLLESON					DWG NO. ST17
STRUCTURE NO.	TRACS NO. T0619 01C						29 OF 70

DATE SAVED:10/13/26 K:\PHX_STRUCTURE\291151013 – 96TH AVE PEDESTRIAN BRIDGE\CADD\12–SHEETS\STRUCTURES\291151013_ST07_ALT 2.DWG

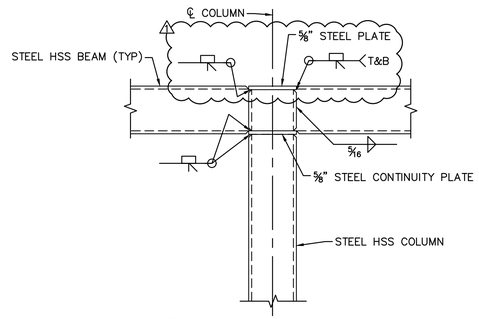


A.4 — STEEL TUBE COLUMN BASE PLATE TYPICAL DETAIL
SCALE: 1½" = 1'–0"

WELD NOTES:
A. WELD TOP STEEL PLATE WASHERS ALL AROUND

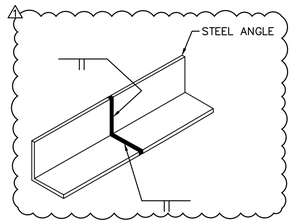


B.4 / 26,27 — STEEL STRINGER AT FOUNDATION DETAIL
SCALE: 1" = 1'–0"

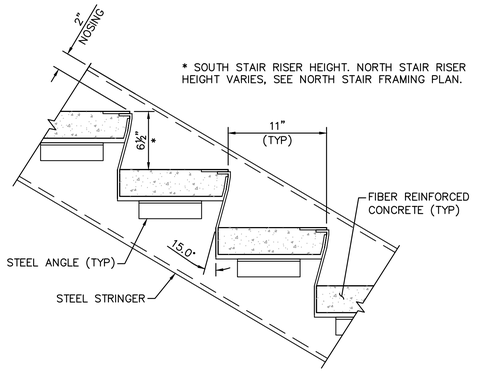


WELD NOTES:
1. SECONDARY STEEL HSS BEAM NOT SHOWN FOR CLARITY.
2. WELDS ARE SYMMETRICAL ABOUT ℄ COLUMN.

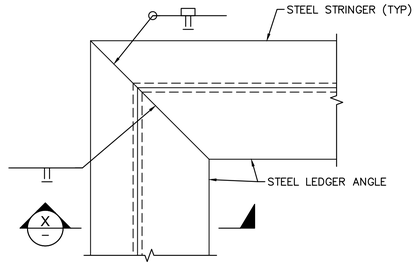
C.4 / 26,27 — STEEL BEAM AT STEEL COLUMN DETAIL
SCALE: 1" = 1'–0"



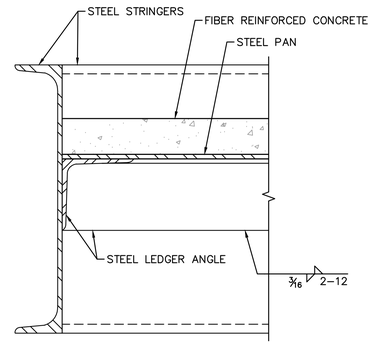
D.4 / – — SPLICE IN CONTINUOUS STEEL LEDGER ANGLE
SCALE: 1" = 1'–0"



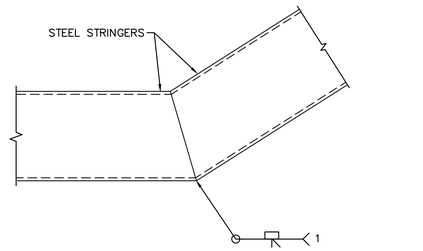
E.4 / 26,27 — STEEL PAN CONNECTIONS TO STEEL CHANNEL STRINGER
SCALE: 1½" = 1'–0"



F.4 / 26,27 — STEEL CHANNEL CORNER CONDITION - PLAN VIEW
SCALE: 3" = 1'–0"

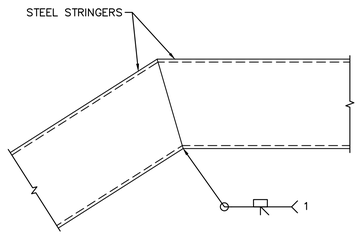


X / – — SECTION
SCALE: 3" = 1'–0"



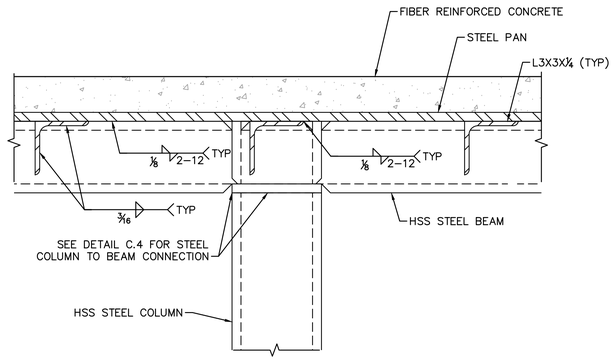
G.4 / 26,27 — TYPICAL SPLICE AT STEEL CHANNELS
SCALE: 1" = 1'–0"

NOTES:
1. FULL PENETRATION WELD, TYPICAL.
2. STAIR TREADS, RISERS, AND LANDING NOT SHOWN FOR CLARITY.

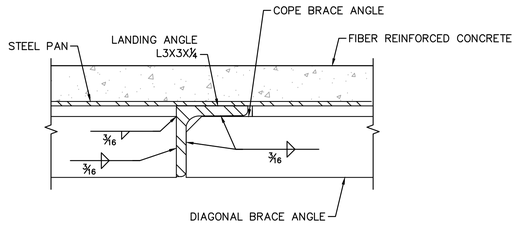


NOTES:
1. FULL PENETRATION WELD, TYPICAL.
2. STAIR TREADS, RISERS, AND LANDING NOT SHOWN FOR CLARITY.

H.4 / 26,27 — TYPICAL SPLICE AT STEEL CHANNELS
SCALE: 1" = 1'–0"



I.4 / 27 — LANDING DETAIL
SCALE: 3" = 1'–0"



J.4 / 27 — DIAGONAL BRACE ANGLE DETAIL
SCALE: 3" = 1'–0"

NO.	DESCRIPTION OF REVISION - REVISED DETAILS	MADE BY - JOT	DATE - 10/26
1			

Registered Professional Engineer (Civil) CERTIFICATE NO. 68796 CHARLES H. GOLEK Date signed 10/15/26 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	SED	10/26
DRAWN	SED	10/26
CHECKED	CHG	10/26

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ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STAIR DETAILS 1

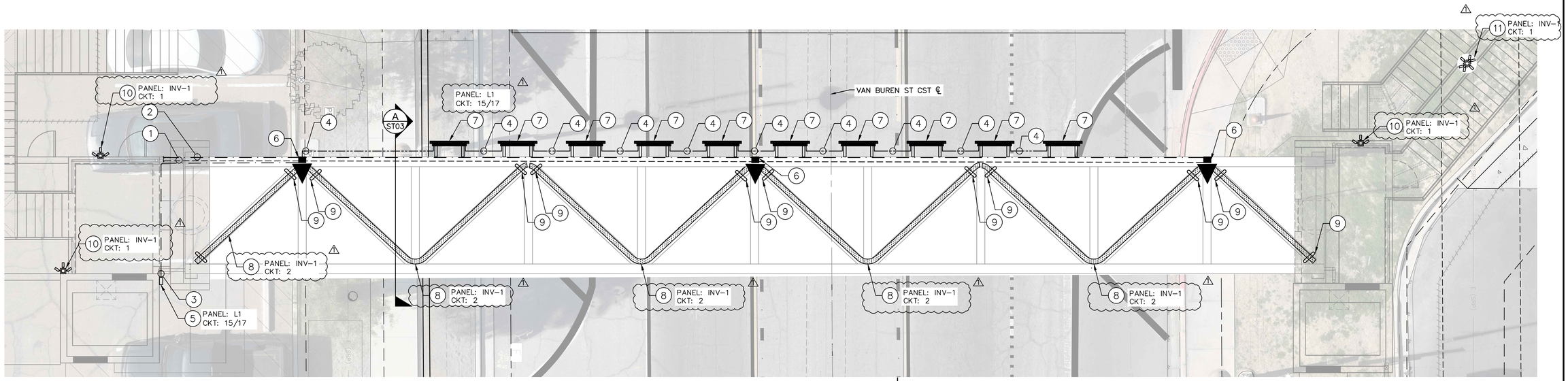
ROUTE -
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division | STATE ARIZ. | PROJECT NO. 0000 MA TOL | FEDERAL ID NO. CDS TOL-0(200)T | SHEET NO. 32 | TOTAL SHEETS 70 | RECORD DRAWING

LOCATION VAN BUREN AT 96TH AVE, TOLLESON | DWG NO. ST20

TRACS NO. T0619 01C

DATE SAVED:10/14/26 K:\PHX_STRUCTURE\291151013 – 96TH AVE PEDESTRIAN BRIDGE\CADD\12–SHEETS\STRUCTURES\291151013_STDT.DWG



GRAPHIC SCALE IN FEET
0 2.5 5 10

SCALE: 1" = 5'-0"
AESTHETIC LIGHTING PLAN

NORTH

AESTHETIC LIGHTING EQUIPMENT LEGEND

- BOTTOM CORD JUNCTION BOX
- TOP CORD JUNCTION BOX
- PROPOSED ELECTRICAL WIRING
- PROPOSED COMMUNICATIONS WIRING
- PROPOSED ELEC/COMM JUMPER WIRE
- PROPOSED FLEXIBLE LED FIXTURE
- PROPOSED WALL WASH FIXTURE

ELECTRICAL CONSTRUCTION NOTES

1. EXTEND (4) #10 AWG CONDUCTORS AND (1) #10 AWG GROUND IN 1" GRC CONDUIT (USE HDPE WHERE INSTALLED WITHIN BRIDGE STRUCTURE) FROM PANEL L1' TO JUNCTION BOX. SEE DETAIL E, SHEET 56.
2. EXTEND DMX CONTROL CABLE (CAT6 ONLY IF APPROVED BY MANUFACTURER; OTHERWISE USE DMX-RATED CABLE) IN 1" GRC CONDUIT (HDPE WITHIN BRIDGE STRUCTURE) FROM DMX MASTER CONSOLE TO DMX DECODERS. SEE DETAIL E, SHEET 56.
3. EXTEND DMX CONTROL CABLE IN 1" HDPE CONDUIT FROM COMMUNICATION CONTROL BOX TO WALL-WASH FIXTURES. SEE DETAIL E, SHEET 56.
4. EXTEND MANUFACTURER-SPECIFIED JUMPER CABLE TO WALL-WASH FIXTURES. CONTRACTOR TO SECURE EXTERNAL CABLE TO FIXTURE SUPPORT ARMS AND BRIDGE MEMBER TO ENSURE NO LOOSE CABLES. SEE DETAIL E, SHEET 56.
5. INSTALL SURFACE-MOUNTED, IP66-RATED CBX60-100 COMMUNICATION CONTROL BOX. ROUTE (2) #10 AWG CONDUCTORS AND (1) #10 AWG GROUND FROM PANEL L1', AND CONNECT FOR COMPLETE SYSTEM.
6. INSTALL 4" X 6" X 6" JUNCTION BOX IN BOTTOM CORD AND 10" X 10" X 10" JUNCTION BOX IN TOP CORD. JUNCTION BOXES TO BE NEMA 1 WITH NEMA 3R COVER PLATE. SEE DETAIL A, SHEET 56.
7. INSTALL LUMENPULSE LUMENFACADE MAX MODEL NO. LFM-CH-UL-120_277-48-10W-MRGBWP-WW-CL-LF-DMX/RDM-VRBO-WMCH18-XD-BRZ-NA MOUNTED ON 18" SUPPORT ARMS MOUNTED TO BRIDGE. SEE DETAIL E, SHEET 56.
8. INSTALL APPROX. 30 LF OF KELVIX EDURAWAVE NARROW DMX PIXEL FLEXIBLE LED MODEL NO. ENN-TX-RGBW3-24-E67-1-30. INSTALL STRAIGHT SECTIONS IN BRACKET MODEL NO. ENN-CH-AL-SR-2M AND CURVED SECTIONS IN FLEX CHANNEL MODEL NO. ENN-CH-SS-FLX-1M. SEE DETAIL E, SHEET 56.
9. INSTALL LIGHTING SECURITY BRACKET AT END OF LED IN CHANNEL PER DETAIL B, SHEET 56.
10. INSTALL (3) HK LIGHTING ZXL30-I FIXTURES ON SINGLE JUNCTION BOX WITH 3-HOLE 1/2" NPT COVER PLATE. SEE DETAIL C, SHEET 56. REFER TO MEP PLANS FOR MOUNTING HEIGHTS AND CIRCUITING TO PANEL L1'. ⚠
11. INSTALL (6) HK LIGHTING ZXL30-I FIXTURES ON POLE PER DETAIL D, SHEET 56. REFER TO MEP PLANS FOR MOUNTING HEIGHTS AND CIRCUITING TO PANEL L1'. ⚠

ELECTRICAL GENERAL NOTES

1. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS AND EXISTING SITE CONDITIONS AND SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED FOR A COMPLETE, TESTED, AND OPERATIONAL BRIDGE AESTHETIC LIGHTING SYSTEM IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION.
2. THE CONTRACTOR SHALL VISIT THE SITE, VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD, AND NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.
3. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE APPROXIMATE EQUIPMENT LOCATIONS AND RACEWAY ROUTING. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND INSTALLATION REQUIREMENTS IN THE FIELD AND COORDINATE WITH APPROVED EQUIPMENT SHOP DRAWINGS.
4. THE CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATIONS, MOUNTING, RACEWAY ROUTING, AND ASSOCIATED EQUIPMENT WITH THE BRIDGE STRUCTURE AND ALL OTHER TRADES. WHERE CONFLICTS OCCUR, NOTIFY THE OWNER AND ENGINEER BEFORE PROCEEDING.
5. NO DEVIATIONS FROM THE APPROVED DRAWINGS OR SPECIFICATIONS SHALL BE MADE WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
6. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES AND ANY REQUIRED SHUTDOWN OF EXISTING ELECTRICAL SERVICES WITH THE OWNER. SHUTDOWNS SHALL OCCUR ONLY AT TIMES APPROVED BY THE OWNER.
7. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL APPLICABLE PERMITS, LICENSES, AND INSPECTIONS REQUIRED FOR THE WORK.
8. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
9. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED SAFETY MEASURES, BARRICADES, WARNING SIGNS, MATERIAL HANDLING, PROTECTION OF EXISTING FACILITIES, AND SITE CLEANUP ASSOCIATED WITH THE WORK.
10. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, FREE FROM DEFECTS, SUITABLE FOR THEIR INSTALLED ENVIRONMENT, AND LISTED OR LABELED BY AN APPROVED TESTING AGENCY WHERE APPLICABLE.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING, UNLOADING, STORING, PROTECTING, AND INSTALLING ALL FURNISHED EQUIPMENT AND MATERIALS.
12. ALL PROPOSED OPENINGS, CORING, DRILLING, AND PENETRATIONS IN THE BRIDGE STRUCTURE SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BEFORE WORK BEGINS. DO NOT CUT OR DRILL STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL.
13. ALL EXTERIOR PENETRATIONS SHALL BE PROPERLY SLEEVED AND SEALED WITH MATERIALS SUITABLE FOR THE EXPOSURE TO PREVENT MOISTURE INTRUSION.
14. THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS, CATALOG CUTS, WIRING DIAGRAMS, FIXTURE MOUNTING DETAILS, AND ASSOCIATED EQUIPMENT DATA FOR OWNER APPROVAL BEFORE PURCHASING EQUIPMENT OR BEGINNING INSTALLATION.
15. THE CONTRACTOR SHALL VERIFY FIELD MEASUREMENTS AND COORDINATE SHOP DRAWINGS WITH ACTUAL BRIDGE CONDITIONS AND OTHER TRADES.
16. UPON COMPLETION, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH APPROVED SUBMITTALS, OPERATION AND MAINTENANCE MANUALS, AND AS-BUILT DRAWINGS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
17. ALL WORK SHALL BE WARRANTED AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR NOT LESS THAN ONE (1) YEAR FROM FINAL ACCEPTANCE, UNLESS OTHERWISE SPECIFIED.
18. THE CONTRACTOR SHALL NOTIFY THE OWNER WHEN THE WORK IS READY FOR FINAL INSPECTION AND SHALL CORRECT ALL ITEMS IDENTIFIED DURING THE FINAL PUNCH LIST REVIEW.
19. UNLESS OTHERWISE NOTED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL."
20. ALL ELECTRICAL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, APPLICABLE LOCAL CODES, ORDINANCES, INDUSTRY STANDARDS, AND UTILITY REQUIREMENTS.
21. ALL CONDUCTORS SHALL BE COPPER AND RATED FOR THE INSTALLED CONDITIONS. CONDUIT AND RACEWAY ROUTING SHOWN IS DIAGRAMMATIC; VERIFY FINAL ROUTING IN THE FIELD.
22. ALL JUNCTION BOXES, PULL BOXES, AND CONNECTION ENCLOSURES SHALL BE OF THE PROPER SIZE AND TYPE FOR THEIR INSTALLED LOCATION AND SHALL BE SECURELY MOUNTED.
23. NEW LIGHTING CIRCUITS SHALL BE CONNECTED TO THE ELECTRICAL PANEL AS INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY AVAILABLE PANEL SPACE AND CIRCUIT DESIGNATIONS BEFORE CONNECTION.
24. PROVIDE AN UPDATED, TYPED PANEL DIRECTORY IDENTIFYING THE ACTUAL LOADS SERVED BY ALL NEW OR MODIFIED CIRCUITS.
25. GROUNDING AND BONDING SHALL COMPLY WITH NEC ARTICLE 250. PROVIDE EQUIPMENT GROUNDING CONDUCTORS AND BOND ALL METAL LIGHT FIXTURES, RACEWAYS, AND ELECTRICAL ENCLOSURES AS REQUIRED.
26. UPON COMPLETION, TEST THE INSTALLED LIGHTING SYSTEM FOR PROPER OPERATION AND ARRANGE ALL REQUIRED FINAL ELECTRICAL INSPECTIONS.

NO.	1
ELECTRICAL CLARIFICATION	
MADE BY - JDM	
DATE - 10/26	

Registered Professional Engineer — Jackson D. Modrak — 80307 — Electrical — ARIZONA USA — Date Signed 10/15/26

Expires 03/31/27

	NAME	DATE
DESIGN	DC	10/26
DRAWN	DC	10/26
CHECKED	JDM	10/26

Kimley»Horn

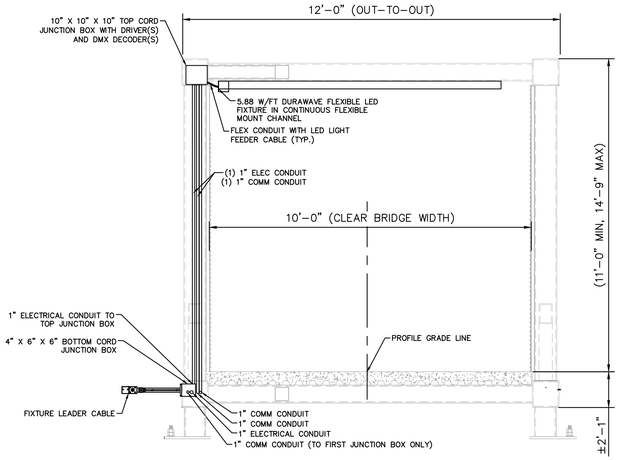
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PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

BRIDGE LIGHTING PLAN

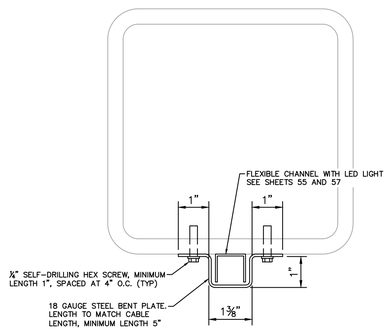
ROUTE	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
-	ARIZ.	0000 MA TOL	CDS TOL-0(200)T	55	70	
MILEPOST	F.H.W.A. Arizona Division					
STRUCTURE NO.	LOCATION: VAN BUREN AT 96TH AVE, TOLLESON					DWG NO. SL00
	TRACS NO. T0619 01C					55 OF 70

DATE SAVED:10/15/26 K:\PHX_STRUCTURE\291151013 - 96TH AVE PEDESTRIAN BRIDGE\CADD\12-SHEETS\LIGHTING\291151013_ELA.DWG



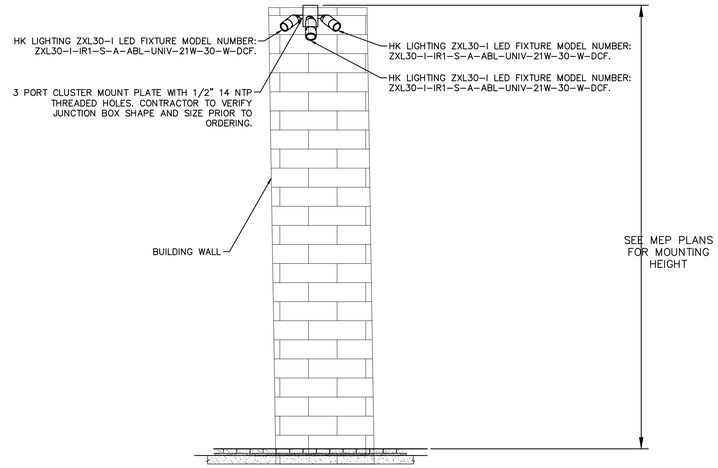
A LED DRIVER JUNCTION BOX IN BRIDGE DETAIL (TYP.)

SCALE: NTS



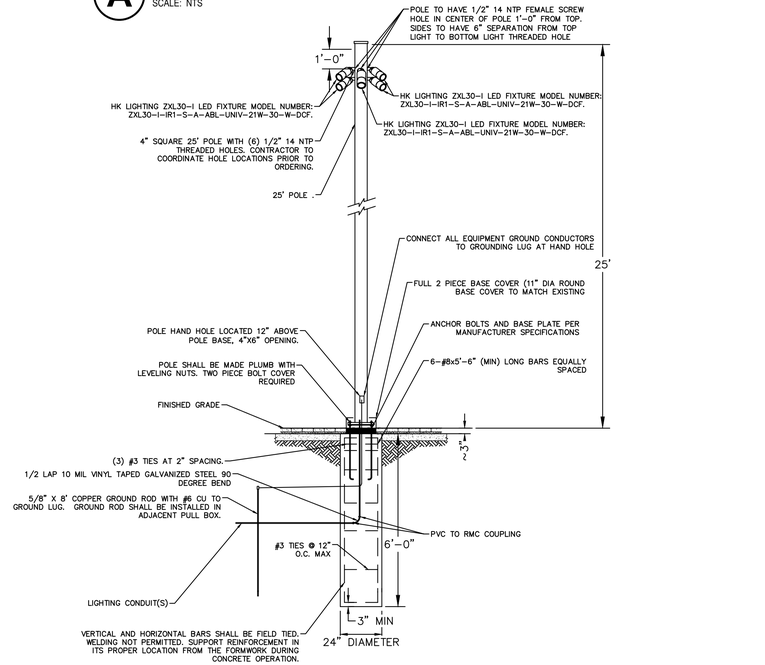
B LIGHTING SECURITY BRACKET DETAIL

SCALE: NTS



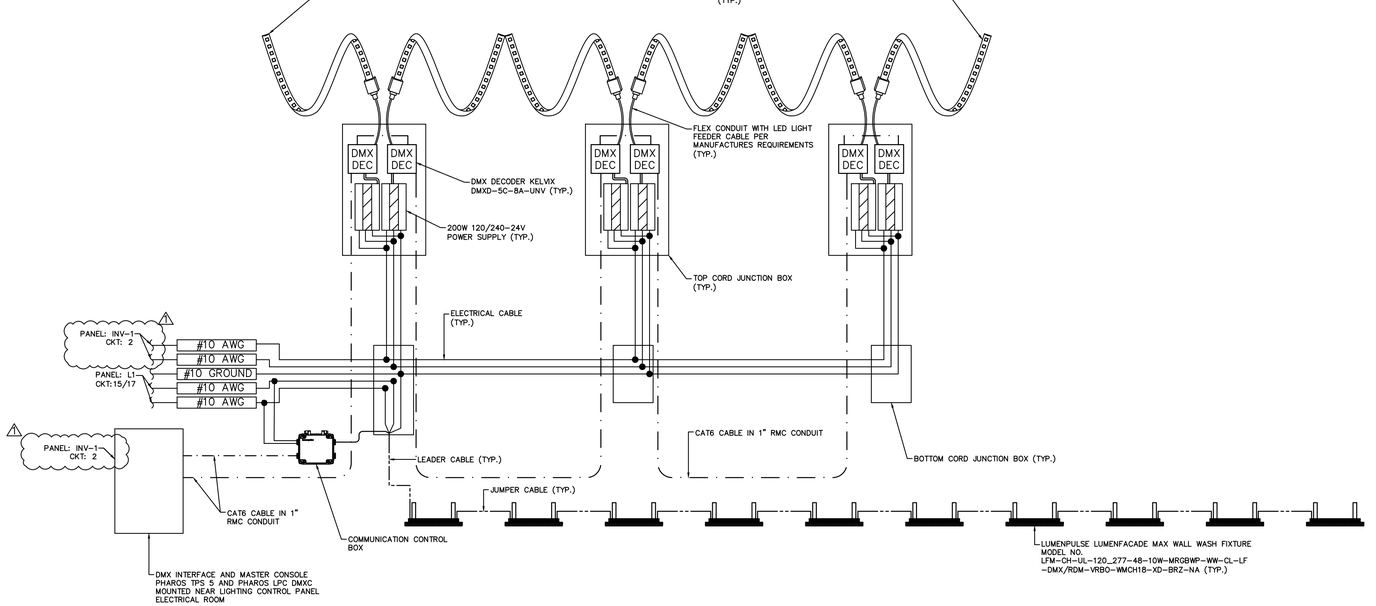
C *WALL MOUNTED LIGHT DETAIL*

SCALE: NTS



D *LIGHTPOLE AND FOUNDATION DETAIL*

SCALE: NTS



E *LIGHTING CONTROL AND POWER WIRE DIAGRAM*

SCALE: NTS

NO. 1 | ELECTRICAL CLARIFICATION | MADE BY - JDM | DATE - 10/26

Registered Professional Engineer (Electrical) — Scottsdale, AZ — 80307 — Jackson D. Modrak — Date Signed 10/10/26 — ARIZONA USA

Expires 03/31/27

	NAME	DATE
DESIGN	DC	10/26
DRAWN	DC	10/26
CHECKED	JDM	10/26

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ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

BRIDGE LIGHTING DETAILS

ROUTE -
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA TOL	CDS TOL-0(200)T	56	70	

LOCATION VAN BUREN AT 96TH AVE, TOLLESON

DWG NO. SL01

TRACS NO. T0619 01C

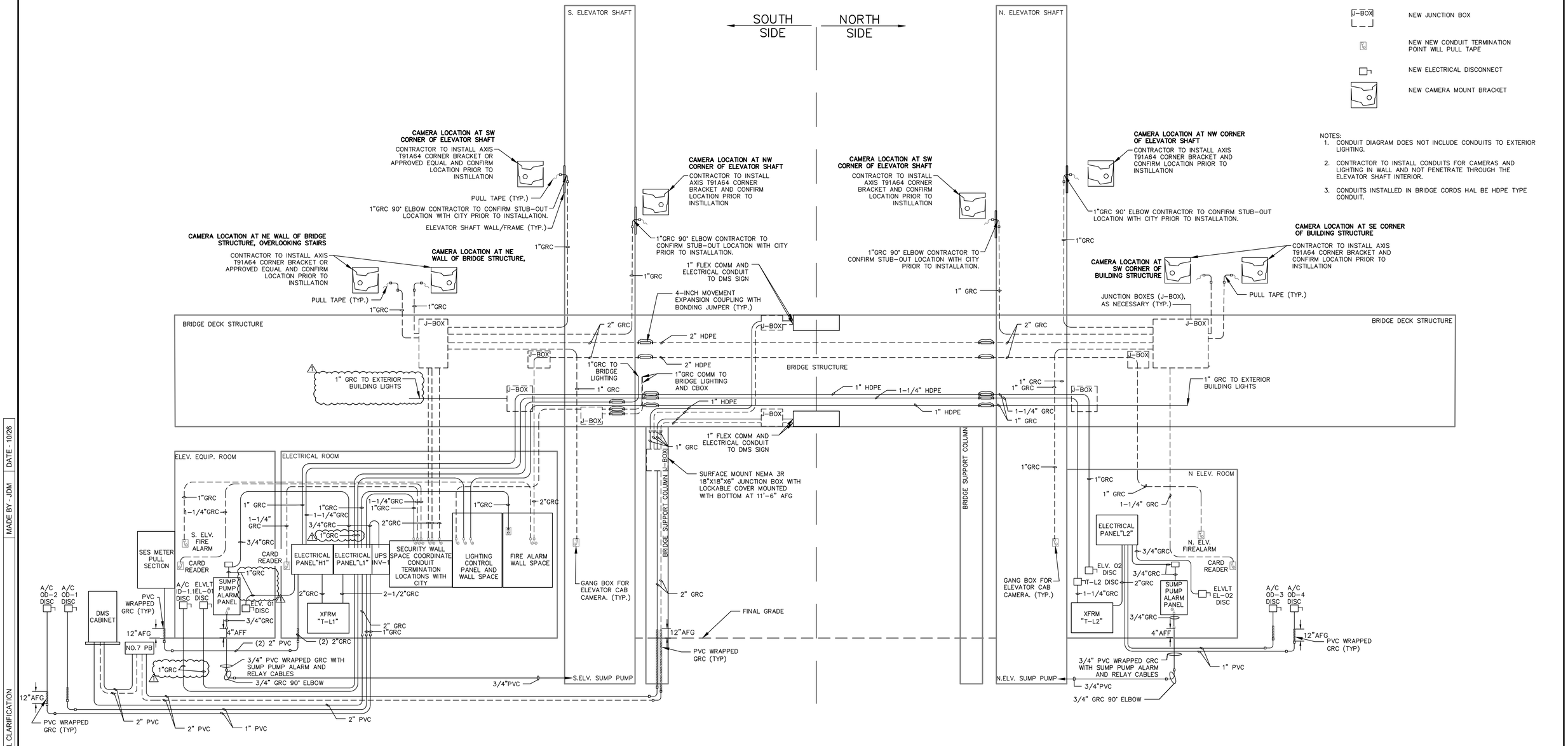
56 OF 70

DATE SAVED:10/13/26 K:\PHX_STRUCTURE\291151013 – 96TH AVE PEDESTRIAN BRIDGE\CADD\12-SHEETS\LIGHTING\291151013_ELA.DWG

CONDUIT DIAGRAM LEGEND

- NEW ELECTRICAL CONDUIT
- NEW COMMUNICATION CONDUIT
- J–BOX — NEW JUNCTION BOX
- NEW NEW CONDUIT TERMINATION POINT WILL PULL TAPE
- NEW ELECTRICAL DISCONNECT
- NEW CAMERA MOUNT BRACKET

NOTES:
1. CONDUIT DIAGRAM DOES NOT INCLUDE CONDUITS TO EXTERIOR LIGHTING.
2. CONTRACTOR TO INSTALL CONDUITS FOR CAMERAS AND LIGHTING IN WALL AND NOT PENETRATE THROUGH THE ELEVATOR SHAFT INTERIOR.
3. CONDUITS INSTALLED IN BRIDGE CORDS HAL BE HDPE TYPE CONDUIT.



NO.	ELECTRICAL CLARIFICATION	MADE BY - JDM	DATE - 10/26

Registered Professional Engineer — Certificate No. 80307 — Jackson D. Modrak — Date Signed 10/13/26 — ARIZONA, USA
Expires 03/31/27

	NAME	DATE
DESIGN	DC	10/26
DRAWN	DC	10/26
CHECKED	JDM	10/26

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ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

CONDUIT DIAGRAM

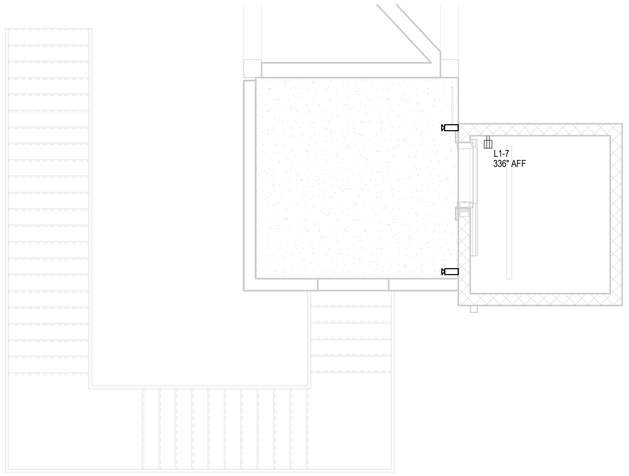
ROUTE -
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

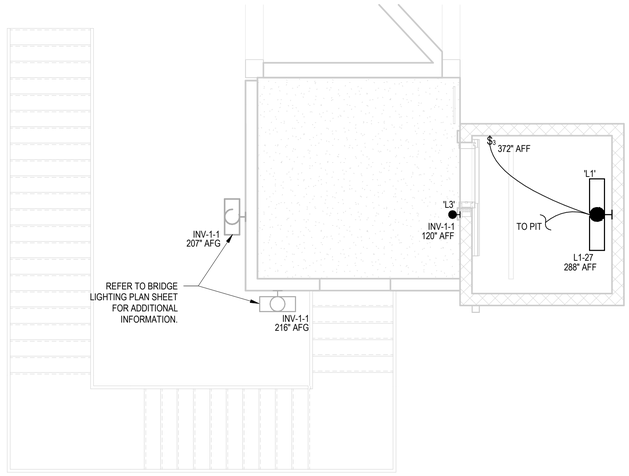
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA TOL	CDS TOL-0(200)T	58	70	

LOCATION: VAN BUREN AT 96TH AVE, TOLLESON
DWG NO. SL03
TRACS NO. T0619 01C
58 OF 70

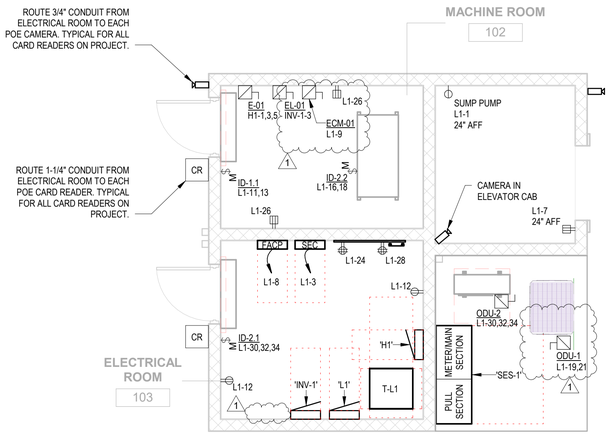
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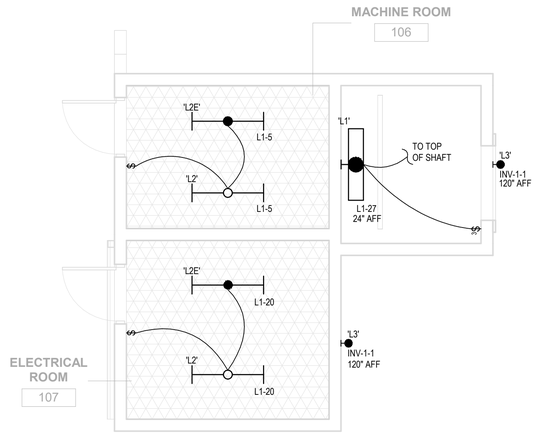
3 ELECTRICAL - LEVEL 2 POWER PLAN - SOUTH SHAFT
1/4" = 1'-0"



4 ELECTRICAL - LEVEL 2 LIGHTING PLAN - SOUTH SHAFT
1/4" = 1'-0"



1 ELECTRICAL - LEVEL 1 POWER PLAN - SOUTH SHAFT
1/4" = 1'-0"



2 ELECTRICAL - LEVEL 1 LIGHTING PLAN - SOUTH SHAFT
1/4" = 1'-0"

1 ADDENDUM 1 10/14/26

4LINE STUDIO
4LINE STUDIO LLC
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480.251.2048
CFORD@4LINESTUDIO.COM

Registered Professional Engineer (Civil) CERTIFICATE NO. 54768 PAUL J. HURT Date Signed 10/14/26 ARIZONA U.S.A.
EXPIRES 6/30/28

DESIGN	SHG	10/26
DRAWN	SHG	10/26
CHECKED	PH	10/26

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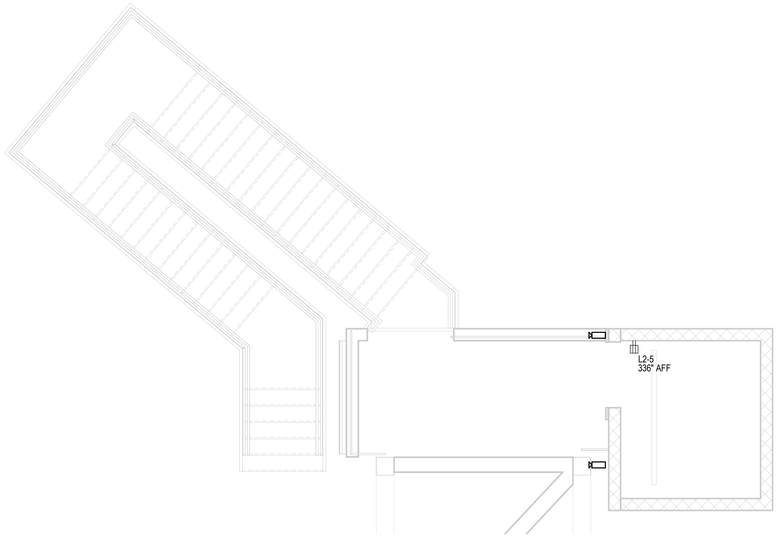
ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

ELECTRICAL ENLARGED PLANS - SOUTH SHAFT

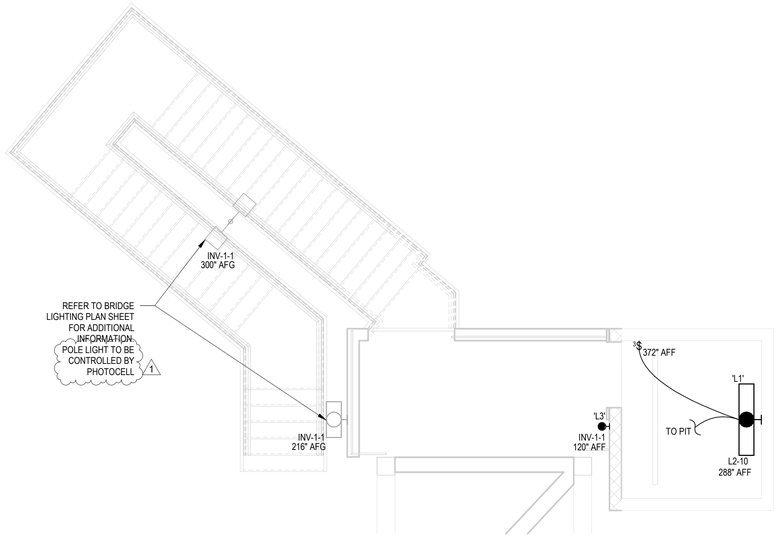
ROUTE	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NUMBER	TOTAL SHEETS	RECORD DRAWING
-	ARIZ.	0000 MA TOL	CDS TOL-0(200)T	62	49	

MILEPOST
STRUCTURE NO.
F.H.W.A. Arizona Division
LOCATION VAN BUREN AT 96TH AVE, TOLLESON
DWG NO. E200
TRACS NO. T0619 01C
ADOT
62 OF 70

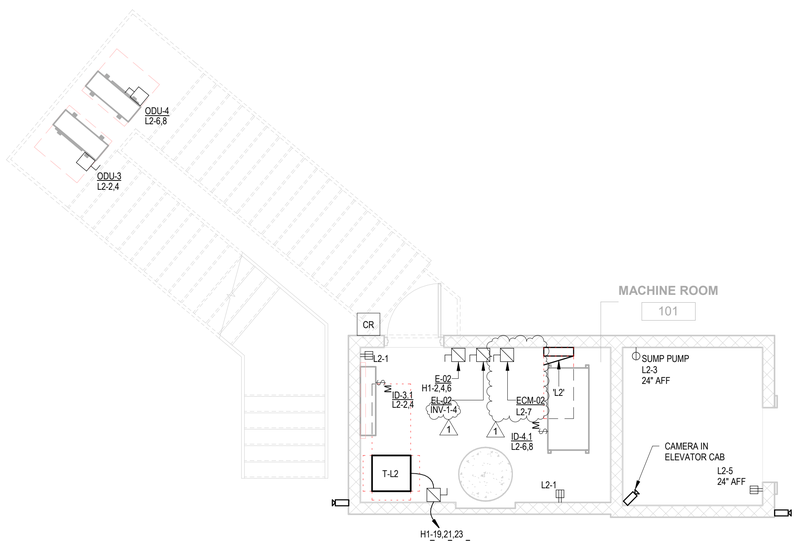
PLOT DATE:10/14/2026 10:58:46 AM



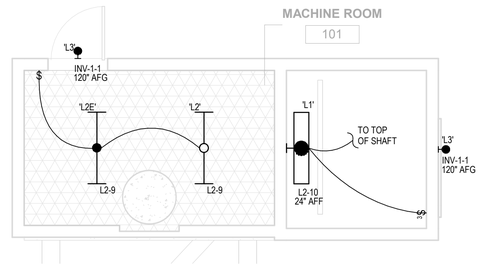
3 ELECTRICAL - LEVEL 2 POWER PLAN - NORTH SHAFT
1/4" = 1'-0"



4 ELECTRICAL - LEVEL 2 LIGHTING PLAN - NORTH SHAFT
1/4" = 1'-0"



1 ELECTRICAL - LEVEL 1 POWER PLAN - NORTH SHAFT
1/4" = 1'-0"



2 ELECTRICAL - LEVEL 1 LIGHTING PLAN - NORTH SHAFT
1/4" = 1'-0"

1 ADDENDUM 1 10/14/26

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4LINE STUDIO LLC
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480.251.2048
CFORD@4LINESTUDIO.COM

Registered Professional Engineer (Structural) CERTIFICATE NO. 54768 PAUL J. HURT Date Signed 10/14/26 ARIZONA U.S.A.
EXPIRES 6/30/28

DESIGN	SHG	10/26
DRAWN	SHG	10/26
CHECKED	PH	10/26

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ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

ELECTRICAL ENLARGED PLANS - NORTH SHAFT

ROUTE	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NUMBER	TOTAL SHEETS	RECORD DRAWING
-	ARIZ.	0000 MA TOL	CDS TOL-0(200)T	63	49	

MILEPOST
STRUCTURE NO.
F.H.W.A. Arizona Division
LOCATION VAN BUREN AT 96TH AVE, TOLLESON
DWG NO. E201
TRACS NO. T0619 01C
ADOT
63 OF 70

PLOT DATE:10/14/2026 10:58:46 AM

LIGHTING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING	PHOTOMETRICS			ELECTRICAL			NOTES
					CCT	CRI	LUMENS	VOLTAGE	WATTAGE	DRIVER	
L1	4' LINEAR STRIP, 3500K, 3300 LUMENS, MVOLT, WITH EM BACKUP AND WIRE CAGE	COLUMBIA LIGHTING	ESL4-35VW-FA-W-EDU-ELL14	SURFACE / SUSPEND	3500 K	80	3300	120	27	0-10V Dimming	PROVIDE UL924 REMOTE BATTERY BACKUP
L2	4' LINEAR STRIP, 3500K, 3300 LUMENS, MVOLT	COLUMBIA LIGHTING	ESL4-35VW-FA-W-EDU	SURFACE	3500 K	80	3300	120	27	0-10V Dimming	
L2E	4' LINEAR STRIP, 3500K, 3300 LUMENS, MVOLT, WITH EM BACKUP	COLUMBIA LIGHTING	ESL4-35VW-FA-W-EDU-ELL14	SURFACE	3500 K	80	3300	120	27	0-10V Dimming	PROVIDE UL924 REMOTE BATTERY BACKUP
L3	MINI WALL PACK, 3000K, 2000 LUMENS, MVOLT,	MULTI-LUMEN	OWP-SL-105-LED-2000L-DIM10-MVOLT-30K-BZ-0-EMG-LED-4W-PHC	SURFACE	3000 K	80	2000	120	38	0-10V Dimming	PROVIDE UL924 REMOTE BATTERY BACKUP, IP65

NOTES:
1. QUANTITIES SHOWN FOR REFERENCE ONLY. CONTRACTOR RESPONSIBLE FOR CONFIRMING ALL QUANTITIES.
2. COORDINATE EXACT LOCATION AND ELEVATION OF LUMINAIRES WITH ARCHITECTURAL FLOOR PLANS, REFLECTED CEILIING PLANS, SECTIONS AND ELEVATIONS.
3. LISTED LUMINAIRES WITH MODEL NUMBERS SHALL SET THE MINIMUM LEVEL OF QUALITY. ALTERNATE FIXTURES ARE SUBJECT TO REVIEW AND WILL NOT BE ACCEPTED WITHOUT THE FORMAL REVIEW AND APPROVAL FROM THE ARCHITECT, ENTINEER AND OWNER.
4. CONTRACTOR TO COORDINATE REQUIRED MOUNTING HARDWARE PRIOR TO ORDER. COORDINATE EXACT MOUNTING HARDWARE WITH CEILING TYPES SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS.
5. LUMINAIRES SHALL BE PROVIDED WITH 1% DIMMABLE DRIVERS, UNLESS SPECIFICALLY NOTED OTHERWISE IN THE LUMINAIRE SCHEDULE.

FEEDER SCHEDULE

(XXX-XX) TAG	FEEDER RATING (A)	CONDUCTOR MATERIAL (AL/CU)	# OF SETS	PHASE CONDUCTORS (AWG/KCMIL)	NEUTRAL CONDUCTOR (N) (AWG/KCMIL)	EQUIPMENT GROUND CONDUCTOR (AWG/KCMIL)	GROUNDING ELECTRODE (AWG/KCMIL)	BONDING JUMPER (AWG/KCMIL)	CONDUIT SIZE (IN) (3Ø+N+EG)
C30-3	30 A	CU	1	3 # 10	-	1 # 10	-	-	3/4"
C50-4	50 A	CU	1	3 # 8	1 # 8	1 # 10	-	-	1"
C70-3	70 A	CU	1	3 # 4	-	1 # 8	-	-	1-1/4"
C125-3	125 A	CU	1	3 # 1	-	1 # 6	-	-	2"
C400-4	400 A	CU	2	3 # 3/0	1 # 3/0	1 # 3	-	-	2"
SC150-4	150 A	CU	1	3 # 1/0	1 # 1/0	-	1 # 6	1 # 6	2"
SC200-4	200 A	CU	1	3 # 3/0	1 # 3/0	-	1 # 4	1 # 4	2-1/2"

NOTES:
1. ALL FEEDERS AND GROUNDS SHALL BE COPPER.
2. FEEDER SIZE SHALL BE ADJUSTED AS REQUIRED BY CODE FOR VOLTAGE DROP BASED ON ACTUAL FEEDER LENGTH.
3. NEUTRALS ARE SHOWN AT 100% OF THE ASSUMED CONNECTED LOAD. FIELD VERIFY ACTUAL LOADS AND SIZE NEUTRALS BASED ON TOTAL UNBALANCED CONNECTED LOAD PER N.E.C.
4. FEEDERS ARE BASED ON THWN WIRE AND EMT CONDUIT. 60° C <100A; 75° C >=100A
5. EG CONDUCTORS BASED ON N.E.C. TABLE 250.122
6. GE CONDUCTORS BASED ON N.E.C. TABLE 250.66

EXAMPLE:
1. 1600NG =(4) SETS OF 3 #600 KCMIL PHASE CONDUCTORS + 1 #600 KCMIL NEUTRAL CONDUCTOR + 1 #4/0 GROUND CONDUCTOR (PER SET).

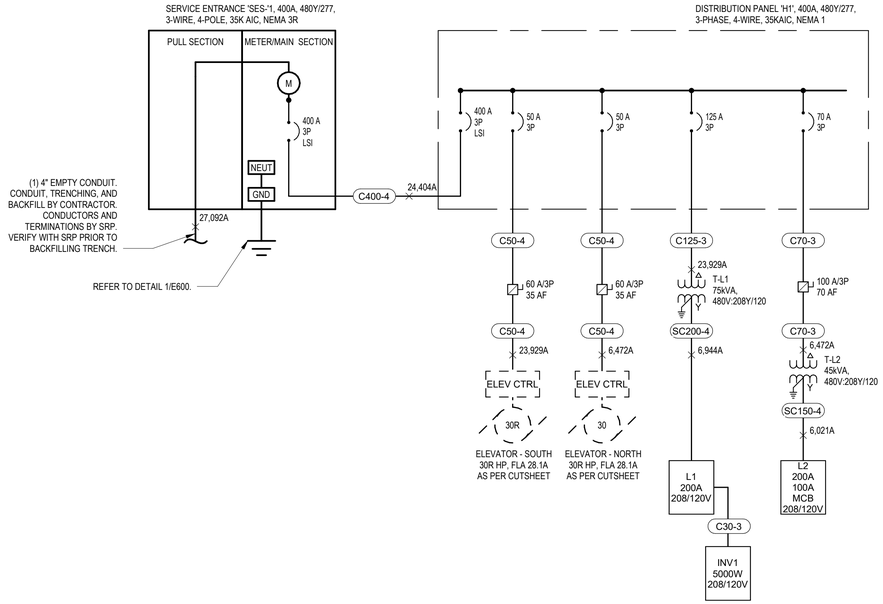
EQUIPMENT CONNECTION SCHEDULE

TAG	LEVEL	AREA	MOTOR/EQUIPMENT DATA							FEEDER SIZE	DISCONNECT			
			VOLTAGE	POLES	LOAD (kVA)	FLA (A)	MCA (A)	MOCP (A)	CIRCUIT NUMBER		TYPE	FRAME (A)	FUSE SIZE (A)	PROVIDED BY
E-01	Level 1	SOUTH SHAFT - LEVEL 1	480	3	23.24	0	28	0	H1-1,3,5	4 # 6 + 1 #10G IN 1"C	FUSED	60	35	EC
E-02	Level 1	NORTH SHAFT	480	3	23.24	0	28	0	H1-2,4,6	4 # 6 + 1 #10G IN 1"C	FUSED	60	35	EC
ECM-01	Level 1	SOUTH SHAFT - LEVEL 1	120	1	0.2	2	3	20	L1-9	2 # 12 + 1 # 12G IN 3/4"C	FUSED	30	20	EC
ECM-02	Level 1	NORTH SHAFT	120	1	0.2	2	3	20	L2-7	2 # 12 + 1 # 12G IN 3/4"C	FUSED	30	20	EC
EL-01	Level 1	SOUTH SHAFT - LEVEL 1	120	1	0	0	0	0	INV-1-3	2 # 12 + 1 # 12G IN 3/4"C	FUSED	30	30	EC
EL-02	Level 1	NORTH SHAFT	120	1	0	0	0	0	INV-1-4	2 # 12 + 1 # 12G IN 3/4"C	FUSED	30	30	EC
ID-1.1	Level 1	SOUTH SHAFT - LEVEL 1	208	2	0.07	0	1	15	L1-11,13	3 # 12 + 1 # 12G IN 3/4"C	MOTOR RATED SWITCH	0	0	EC
ID-2.1	Level 1	SOUTH SHAFT - LEVEL 1	208	3	0	0	0	0	L1-30,32,34	REFER TO MANUFACTURER	MOTOR RATED SWITCH	0	0	EC
ID-2.2	Level 1	SOUTH SHAFT - LEVEL 1	208	2	1.04	0	5	15	L1-16,18	3 # 12 + 1 # 12G IN 3/4"C	MOTOR RATED SWITCH	0	0	EC
ID-3.1	Level 1	NORTH SHAFT	208	2	0	0	0	0	L2-2,4	REFER TO MANUFACTURER	MOTOR RATED SWITCH	0	0	EC
ID-4.1	Level 1	NORTH SHAFT	208	2	0	0	0	0	L2-6,8	REFER TO MANUFACTURER	MOTOR RATED SWITCH	0	0	EC
ODU-1	Level 1	SOUTH SHAFT - LEVEL 1	208	2	7.07	0	34	56	L1-19,21	3 # 8 + 1 #10G IN 1"C	FUSED	60	50	EC
ODU-2	Level 1	SOUTH SHAFT - LEVEL 1	208	3	14.4	0	40	60	L1-30,32,34	3 #6 + 1 #10G IN 1"C	FUSED	60	60	EC
ODU-3	Level 1	NORTH SHAFT	208	2	7.07	0	34	56	L2-2,4	3 # 8 + 1 #10G IN 1"C	NON-FUSED	60	0	EC
ODU-4	Level 1	NORTH SHAFT	208	2	7.07	0	34	56	L2-6,8	3 # 8 + 1 #10G IN 1"C	NON-FUSED	60	0	EC

Point	Point Name	Source* Point	Source Amps	Conduit Type	Conductor Type	Wire Size/Quantity			Load (A)	Distance	Voltage	Phase	XFMR kVA	XFMR %Z	Isc	**% Vdrop	Point
1	Utility Published Data	0	27,092												27,092		1
2			#N/A	NM	Copper		Set of								#DIV/0!	#N/A	2
3	SES-1	1	27,092	M	Copper	1	Set of	500 KCML	400	25	480	3			24,404	0.18%	3
4	Panel H1	3	24,404	M	Copper	1	Set of	500 KCML	400	5	480	3			23,929	0.22%	4
5	Transformer T1	4	23,929	M	Copper	1	Set of	1	125	5	480	3	75	3.5	22,591	0.25%	5
6			#N/A	M	Copper		Set of								#DIV/0!	#N/A	6
7	Panel L1	5	22,591	M	Copper	1	Set of	3/0	200	5	208	3			21,050	0.33%	7
8	Panel H2	4	23,929	NM	Copper	1	Set of	3	100	150	480	3			6,472	1.46%	8
9	T2 Primary	8	6,472	M	Copper	1	Set of	8	36	5	480	3			6,021	1.51%	9
10	T2 Secondary	9	6,021	M	Copper	1	Set of	3	83	5	208	3			5,719	1.59%	10
11	Panel L2	10	5,719	M	Copper	1	Set of	3	83	5	208	3			5,447	1.67%	11
12			#N/A	NM	Copper		Set of								#DIV/0!	#N/A	12
13	Security Panel	7	21,050	M	Copper	1	Set of	12	20	10	120	1			5,477	0.89%	13
14	Fire Alarm Control Panel	7	21,050	M	Copper	1	Set of	12	20	10	120	1			5,477	0.89%	14
15	Lighting Control Panel	7	21,050	M	Copper	1	Set of	12	20	10	120	1			5,477	0.89%	15
16			#N/A	NM	Copper		Set of								#DIV/0!	#N/A	16
17	Elevator - South	4	23,929	NM	Copper	1	Set of	10	25	40	480	3			5,293	0.61%	17
18	Elevator - North	8	6,472	NM	Copper	1	Set of	10	25	25	480	3			4,057	1.71%	18
19			#N/A	NM	Copper		Set of								#DIV/0!	#N/A	19
20			#N/A	NM	Copper		Set of								#DIV/0!	#N/A	20
21			#N/A	NM	Copper		Set of								#DIV/0!	#N/A	21
22			#N/A	NM	Copper		Set of								#DIV/0!	#N/A	22
23			#N/A	NM	Copper		Set of								#DIV/0!	#N/A	23
24			#N/A	NM	Copper		Set of								#DIV/0!	#N/A	24
25			#N/A	NM	Copper		Set of								#DIV/0!	#N/A	25
26			#N/A	NM	Copper		Set of								#DIV/0!	#N/A	26
27			#N/A	NM	Copper		Set of								#DIV/0!	#N/A	27
28				NM	Copper		Set of										28

2 SXL - VD

12" = 1'-0"



1 SINGLE LINE DIAGRAM

12" = 1'-0"

1 ADDENDUM 1 10/14/26

4LINE STUDIO
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Registered Professional Engineer (Retired) CERTIFICATE NO. 54768 PAUL J. HURT Date Signed 10/14/26 ARIZONA U.S.A.
EXPIRES 6/30/28

DESIGN	SHG	10/26
DRAWN	SHG	10/26
CHECKED	PH	10/26

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ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

ELECTRICAL SINGLE LINE DIAGRAM & SCHEDULES

ROUTE	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NUMBER	TOTAL SHEETS	RECORD DRAWING
-	ARIZ.	0000 MA TOL	CDS TOL-0(200)T	65	49	
MILEPOST	F.H.W.A. Arizona Division					
STRUCTURE NO.	LOCATION: VAN BUREN AT 96TH AVE, TOLLESON					DWG NO. E700
	TRACS NO. T0619 01C		ADOT		65 OF 70	

PLOT DATE:10/14/2026 10:58:47 AM

PANELBOARD: H1

LOCATION: ELECTRICAL ROOM 107 **VOLTS:** 480/277 Wye **A.I.C. RATING:** 35K
SUPPLY FROM: 'SES-1' **PHASES:** 3 **MAINS TYPE:** MCB
MOUNTING: SURFACE **WIRES:** 4 **MAINS RATING:** 400 A
ENCLOSURE: NEMA 1 **MCB RATING:** 400 A

CKT	DESCRIPTION	NOTES	LOAD	TRIP (A)	POLES	A (kVA)		B (kVA)		C (kVA)		POLES	TRIP (A)	LOAD	NOTES	DESCRIPTION	CKT
1	EQ - ELEV01-DISC		M	50	3	7.75	7.75					3	50	M		EQ - ELEV02-DISC	2
3	--	--	--	--	--			7.75	7.75			--	--	--	--	--	4
5	--	--	--	--	--					7.75	7.75	--	--	--	--	--	6
7	SPARE	--	--	20	1	0	0					1	20	--	--	SPARE	8
9	SPARE	--	--	20	1			0	0			1	20	--	--	SPARE	10
11	SPARE	--	--	20	1					0	0	1	20	--	--	SPARE	12
13	SPARE	--	--	20	1	0	0					1	20	--	--	SPARE	14
15	SPARE	--	--	20	1			0	0			1	20	--	--	SPARE	16
17	SPARE	--	--	20	1					0	0	1	20	--	--	SPARE	18
19	'T-LZ' (45KVA)		R; S;...	50	3	8.27	13.67					3	125	R; S;...		'T-L1' (75KVA)	20
21	--	--	--	--	--			4.46	12.09			--	--	--	--	--	22
23	--	--	--	--	--					4.54	11.51	--	--	--	--	--	24
					TOTAL LOAD:	37.43		32.05		31.54							
					TOTAL AMPS:	135 A		116 A		114 A							

	LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	CALCULATED DEMAND	PANEL TOTALS	
R	RECEPTACLE	100% FIRST 10 KVA, 50% OTHER	6720 VA	100.00%	6720 VA		
C	CONTINUOUS	125%	37727 VA	125.00%	47159 VA	**TOTAL CONNECTED LOAD:**	101.02 kVA
N	NON-CONTINUOUS	100%	0 VA	0.00%	0 VA	**TOTAL CALCULATED LOAD:**	117.34 kVA
M	MOTOR	125% LARGEST, 100% OTHER	46480 VA	112.50%	52290 VA	**TOTAL CONNECTED CURRENT:**	122 A
L	LIGHTING	125%	4332 VA	125.00%	5416 VA	**TOTAL CALCULATED CURRENT:**	141 A
--	EXISTING	EXISTING LOAD	0 VA	0.00%	0 VA		

NOTES:

PANELBOARD: INV-1

LOCATION: ELECTRICAL ROOM 107 **VOLTS:** 120/208 Single **A.I.C. RATING:** 10K
SUPPLY FROM: L1 (1) **PHASES:** 1 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 3 **MAINS RATING:** 25 A
ENCLOSURE: NEMA 1 **MCB RATING:** 25 A

CKT	DESCRIPTION	NOTES	LOAD	TRIP (A)	POLES	A		C		POLES	TRIP (A)	LOAD	NOTES	DESCRIPTION	CKT
1	LTG - EXTERIOR		L	20	1	0.34	1			1	20	L		LTG - BRIDGE INTERIOR	2
3	EQ - ELEV01-LTG-DISC		L	20	1			0	0	1	20	L		EQ - ELEV02-LTG-DISC	4
5	SPARE	--	--	20	1	0	0			1	20	--	--	SPARE	6
					TOTAL LOAD:	1.34		0.00							
					TOTAL AMPS:	11 A		0 A							

	LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	CALCULATED DEMAND	PANEL TOTALS	
R	RECEPTACLE	100% FIRST 10 KVA, 50% OTHER	0 VA	0.00%	0 VA		
C	CONTINUOUS	125%	0 VA	0.00%	0 VA	**TOTAL CONNECTED LOAD:**	1.34 kVA
N	NON-CONTINUOUS	100%	0 VA	0.00%	0 VA	**TOTAL CALCULATED LOAD:**	1.68 kVA
M	MOTOR	125% LARGEST, 100% OTHER	0 VA	125.00%	0 VA	**TOTAL CONNECTED CURRENT:**	6 A
L	LIGHTING	125%	1342 VA	125.00%	1678 VA	**TOTAL CALCULATED CURRENT:**	8 A
--	EXISTING	EXISTING LOAD	0 VA	0.00%	0 VA		

NOTES:
(3) REFER TO BRIDGE LIGHTING PLANS FOR ELECTRICAL POINT OF CONNECTION. ROUTE (2) 10 AWG + (1) 10 AWG GND IN 1" C. TO SPECIFIED LOCATION.

PANELBOARD: L1

LOCATION: ELECTRICAL ROOM 107 **VOLTS:** 120/208 Wye **A.I.C. RATING:** 10K
SUPPLY FROM: 'T-L1' **PHASES:** 3 **MAINS TYPE:** MCB
MOUNTING: SURFACE **WIRES:** 4 **MAINS RATING:** 200 A
ENCLOSURE: NEMA 1 **MCB RATING:** 200 A

CKT	DESCRIPTION	NOTES	LOAD	TRIP (A)	POLES	A (kVA)		B (kVA)		C (kVA)		POLES	TRIP (A)	LOAD	NOTES	DESCRIPTION	CKT
1	EQ - ELEV01 - SUMP PUMP		R	20	1	0.18	0					1	20	--	--	SPARE	2
3	SECURITY PANEL		C	20	1			0.5	0			1	20	--	--	SPARE	4
5	LTG - MACHINE RM. 106		L	20	1					0.05	1.92	1	20	N(2)	(2)	DMS CABINENT	6
7	REC - ELEV01 SHAFT		R	20	1	0.36	0.5					1	20	C(1)	(1)	FIRE ALARM CONTROL...	8
9	ELEV 1 COMM		L	20	1			0.2	0			1	20	--	--	SPARE	10
11	EQ - ID-1.1		C	15	2					0.04	0.36	1	20	R		REC - ELECTRICAL RM. 107	12
13	--	--	--	--	--	0.04	0					1	20	--	--	SPARE	14
15	LTG - BRIDGE EXTERIOR		L	20	2			0.2	0.52			2	65	C		EQ -OD-2	16
17	--	--	--	--	--					0.2	0.52	--	--	--	--	--	18
19	EQ - ODU-1		C	35	2	3.54	0.05					1	20	L		LTG - ELECTRICAL RM. 107	20
21	--	--	--	--	--			3.54	0			1	20	--	--	SPARE	22
23	INV-1		S; L	30	2					1.34	0.36	1	20	R		REC - TELECOM	24
25	--	--	--	--	--	0	0.36					1	20	R		REC - MACHINE RM. 106	26
27	LTG - ELEV01 SHAFT		L	20	1			0.05	0.36			1	20	R		REC - TELECOM	28
29	SPARE	--	--	20	1					0	4.8	3	60	C		EQ -ODU-2 & ID-2.1	30
31	DMS CABINENT	(2)	N(2)	20	1	1.92	4.8					--	--	--	--	--	32
33	DMS CABINENT	(2)	N(2)	20	1			1.92	4.8			--	--	--	--	--	34
35	SPARE	--	--	20	1					0	1.92	1	20	R(2)	(2)	DMS CABINENT	36
37	SPARE	--	--	20	1	0	1.92					1	20	R(2)	(2)	DMS CABINENT	38
39	SPACE	--	--	--	1			--	--			1	--	--	--	SPACE	40
41	SPACE	--	--	--	1					--	--	1	--	--	--	SPACE	42
					TOTAL LOAD:	13.67		12.09		11.51							
					TOTAL AMPS:	115 A		101 A		96 A							

	LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	CALCULATED DEMAND	PANEL TOTALS	
R	RECEPTACLE	100% FIRST 10 KVA, 50% OTHER	5820 VA	100.00%	5820 VA		
C	CONTINUOUS	125%	9183 VA	125.00%	11479 VA	**TOTAL CONNECTED LOAD:**	37.27 kVA
N	NON-CONTINUOUS	100%	0 VA	0.00%	0 VA	**TOTAL CALCULATED LOAD:**	43.69 kVA
M	MOTOR	125% LARGEST, 100% OTHER	14400 VA	125.00%	18000 VA	**TOTAL CONNECTED CURRENT:**	103 A
L	LIGHTING	125%	2104 VA	125.00%	2631 VA	**TOTAL CALCULATED CURRENT:**	121 A
--	EXISTING	EXISTING LOAD	0 VA	0.00%	0 VA		

NOTES:
(1) PROVIDE CLASS A GFCI CIRCUIT BREAKER. (2) PROVIDE CIRCUIT BREAKER OF COLOR RED WITH LOCK-ON PROVISIONS (2) REFER TO DMS PLANS FOR LOCATION OF DMS CABINENT. ROUTE (2) 12 AWG + (1) 12 AWG GND IN 1-1/14" C. BELOW GRADE TO SPECIFIED LOCATION. (3) REFER TO BRIDGE LIGHTING PLANS FOR ELECTRICAL POINT OF CONNECTION. ROUTE (2) 12 AWG + (1) 12 AWG GND IN 1-1/14" C. TO SPECIFIED LOCATION.

PANELBOARD: L2

LOCATION: MACHINE ROOM 101 **VOLTS:** 120/208 Wye **A.I.C. RATING:** 10K
SUPPLY FROM: 'T-L2' **PHASES:** 3 **MAINS TYPE:** MCB
MOUNTING: SURFACE **WIRES:** 4 **MAINS RATING:** 200 A
ENCLOSURE: NEMA 1 **MCB RATING:** 100 A

CKT	DESCRIPTION	NOTES	LOAD	TRIP (A)	POLES	A (kVA)		B (kVA)		C (kVA)		POLES	TRIP (A)	LOAD	NOTES	DESCRIPTION	CKT
1	REC - MACHINE RM. 105		R	20	1	0.36	3.54					2	50	C		EQ - ODU-3 &ID-3.1	2
3	EQ - ELEV02 - SUMP PUMP		R	20	1			0.18	3.54			--	--	--	--	--	4
5	REC - ELEV02 SHAFT		R	20	1					0.36	3.54	2	50	C		EQ - ODU-4 &ID-4.1	6
7	ELEV 2 COMM		L	20	1	0.2	3.54					--	--	--	--	--	8
9	LTG - MACHINE RM. 105		L	20	1			0.05	0.05			1	20	L		LTG - ELEV02 SHAFT	10
11											0	1	20	--	--	SPARE	12
13	SPARE	--	--	20	1	0	0					1	20	--	--	SPARE	14
15	SPARE	--	--	20	1			0	0			1	20	--	--	SPARE	16
17	SPARE	--	--	20	1					0	0	1	20	--	--	SPARE	18
19	SPACE	--	--	--	1	--	--					1	--	--	--	SPACE	20
21	SPACE	--	--	--	1			--	--			1	--	--	--	SPACE	22
23	SPACE	--	--	--	1					--	--	1	--	--	--	SPACE	24
25	SPACE	--	--	--	1	--	--					1	--	--	--	SPACE	26
27	SPACE	--	--	--	1			--	--			1	--	--	--	SPACE	28
29	SPACE	--	--	--	1					--	--	1	--	--	--	SPACE	30
31	SPACE	--	--	--	1	--	--					1	--	--	--	SPACE	32
33	SPACE	--	--	--	1			--	--			1	--	--	--	SPACE	34
35	SPACE	--	--	--	1					--	--	1	--	--	--	SPACE	36
37	SPACE	--	--	--	1	--	--					1	--	--	--	SPACE	38
39	SPACE	--	--	--	1			--	--			1	--	--	--	SPACE	40
41	SPACE	--	--	--	1					--	--	1	--	--	--	SPACE	42
					TOTAL LOAD:	7.63		3.82		3.90							
					TOTAL AMPS:	64 A		32 A		33 A							

	LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	CALCULATED DEMAND	PANEL TOTALS	
R	RECEPTACLE	100% FIRST 10 KVA, 50% OTHER	900 VA	100.00%	900 VA		
C	CONTINUOUS	125%	7072 VA	125.00%	8840 VA	**TOTAL CONNECTED LOAD:**	15.35 kVA
N	NON-CONTINUOUS	100%	0 VA	0.00%	0 VA	**TOTAL CALCULATED LOAD:**	18.97 kVA
M	MOTOR	125% LARGEST, 100% OTHER	7072 VA	125.00%	8840 VA	**TOTAL CONNECTED CURRENT:**	43 A
L	LIGHTING	125%	308 VA	125.00%	385 VA	**TOTAL CALCULATED CURRENT:**	53 A
--	EXISTING	EXISTING LOAD	0 VA	0.00%	0 VA		

NOTES:

PANEL 'H1'	INV-1
PANEL 'L1'	PANEL 'L2'

1 | ADDENDUM 1 | 10/14/26

4LINE STUDIO
4LINE STUDIO LLC
WWW.4LINESTUDIO.COM
480.251.2048
CFORD@4LINESTUDIO.COM

Registered Professional Engineer (Retired)
CERTIFICATE NO. 54768
PAUL J. HURT
Date Signed 10/14/26
ARIZONA U.S.A.
EXPIRES 6/30/28

DESIGN	SHG	10/26
DRAWN	SHG	10/26
CHECKED	PH	10/26

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ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

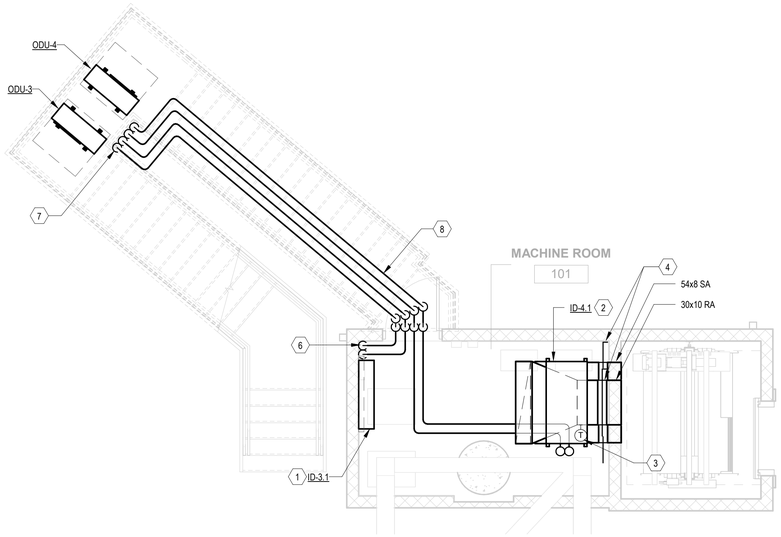
ELECTRICAL PANELBOARD SCHEDULES

ROUTE -
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NUMBER	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 MA TOL	CDS TOL-0(200)T	66	49	

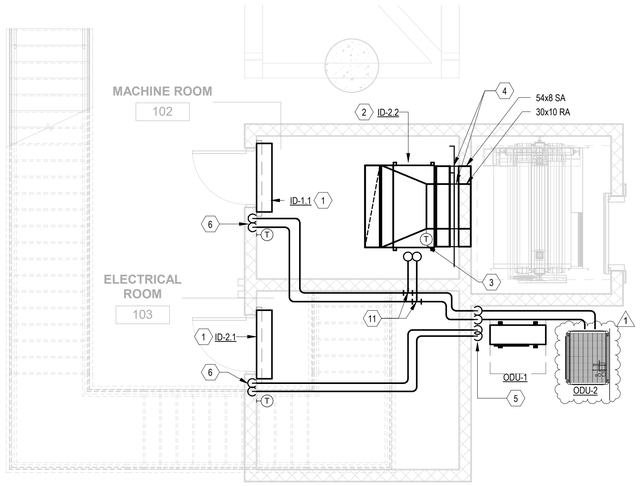
LOCATION: VAN BUREN AT 96TH AVE, TOLLESON
DWG NO. E800
TRACS NO. T0619 01C
ADOT
66 OF 70

PLOT DATE:10/14/2026 10:58:47 AM



2 MECHANICAL PLAN - NORTH

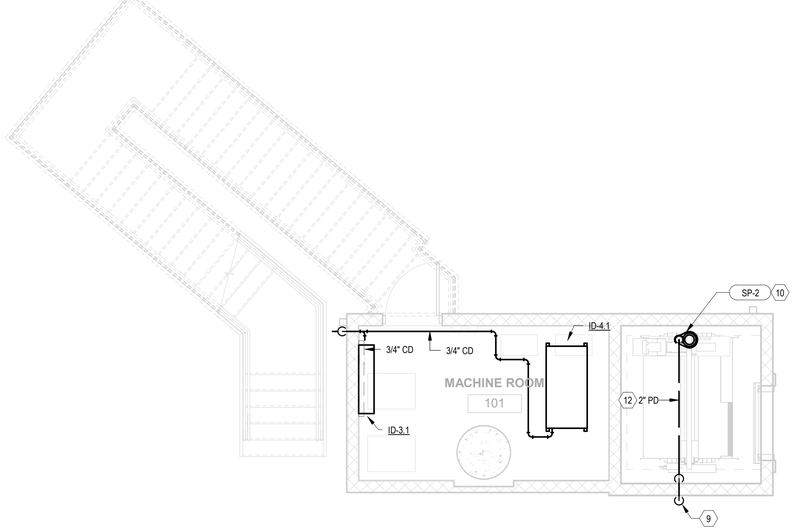
1/4" = 1'-0"



1 MECHANICAL PLAN - SOUTH

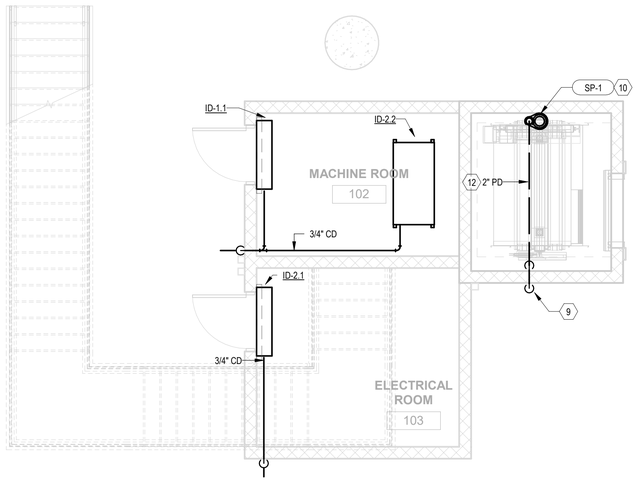
1/4" = 1'-0"

#	KEYNOTES
1	PROVIDE WALL-MOUNTED FAN COIL INDOOR UNIT WITH MANUFACTURER'S PROGRAMMABLE THERMOSTAT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2	PROVIDE CONCEALED DUCTED FAN COIL UNIT ABOVE RATED CEILING. HANG UNIT FROM STRUCTURE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3	PROVIDE PROGRAMMABLE THERMOSTAT IN RETURN AIR DUCT.
4	PROVIDE 2-HR FIRE DAMPER AT DUCT PENETRATIONS INTO ELEVATOR SHAFT.
5	REFRIGERANT PIPING FROM OUTDOOR CONDENSING UNIT. PROVIDE CLOSED CELL FOAM INSULATION ON REFRIGERANT LINESET AND PROVIDE ALUMINUM JACKET OVER INSULATION EXPOSED TO SUNLIGHT. SEAL PENETRATION INTO BUILDING WEATHER-TIGHT.
6	REFRIGERANT PIPING DN TO WALL-MOUNTED FAN COIL UNIT.
7	STRAP REFRIGERANT LINESET TO COLUMN.
8	REFRIGERANT LINESET ROUTED BELOW STAIRS. SECURE PIPE HANGERS TO UNDERSIDE OF STAIRS. COORDINATE WITH OTHER TRADES.
9	TERMINATE SUMP PUMP DRAIN AT EXTERIOR GRADE. DRAIN SHALL TERMINATE 24" AFG WITH A 90 DEGREE ELBOW DIRECT TOWARDS GRADE.
10	PROVIDE ELEVATOR SUMP PUMP. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO EQUIPMENT SCHEDULE.
11	MULTI-CONNECTED P-SERIES SYSTEM INDOOR UNITS CONNECTED VIA MANUFACTURER-APPROVED REFRIGERANT BRANCH JOINT
12	PUMP DISCHARGE PIPE ROUTING TO ROUTE BELOW ELEVATOR HOIST WAY RAIL TO PREVENT CONFLICT



3 PLUMBING PLAN - NORTH PIT

1/4" = 1'-0"



4 PLUMBING PLAN - SOUTH PIT

1/4" = 1'-0"

1 ADDENDUM 1 10/14/26

4LINE STUDIO
4LINE STUDIO LLC
WWW.4LINESTUDIO.COM
480.251.2048
CFORD@4LINESTUDIO.COM

Professional Engineer — Registered in ARIZONA, U.S.A. — Individual
JEFFREY SMITH
68967
Date Signed 10/14/2026

DESIGN	ARW	10/26
DRAWN	ARW	10/26
CHECKED	JDS	10/26

Kimley»Horn

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ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

MECHANICAL & PLUMBING PLANS

ROUTE -
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NUMBER	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA TOL	CDS TOL-0(200)T	68	49	

LOCATION VAN BUREN AT 96TH AVE, TOLLESON

DWG NO. M101

TRACS NO. T0619 01C

ADOT

PLOT DATE:10/14/2026 10:31:10 AM