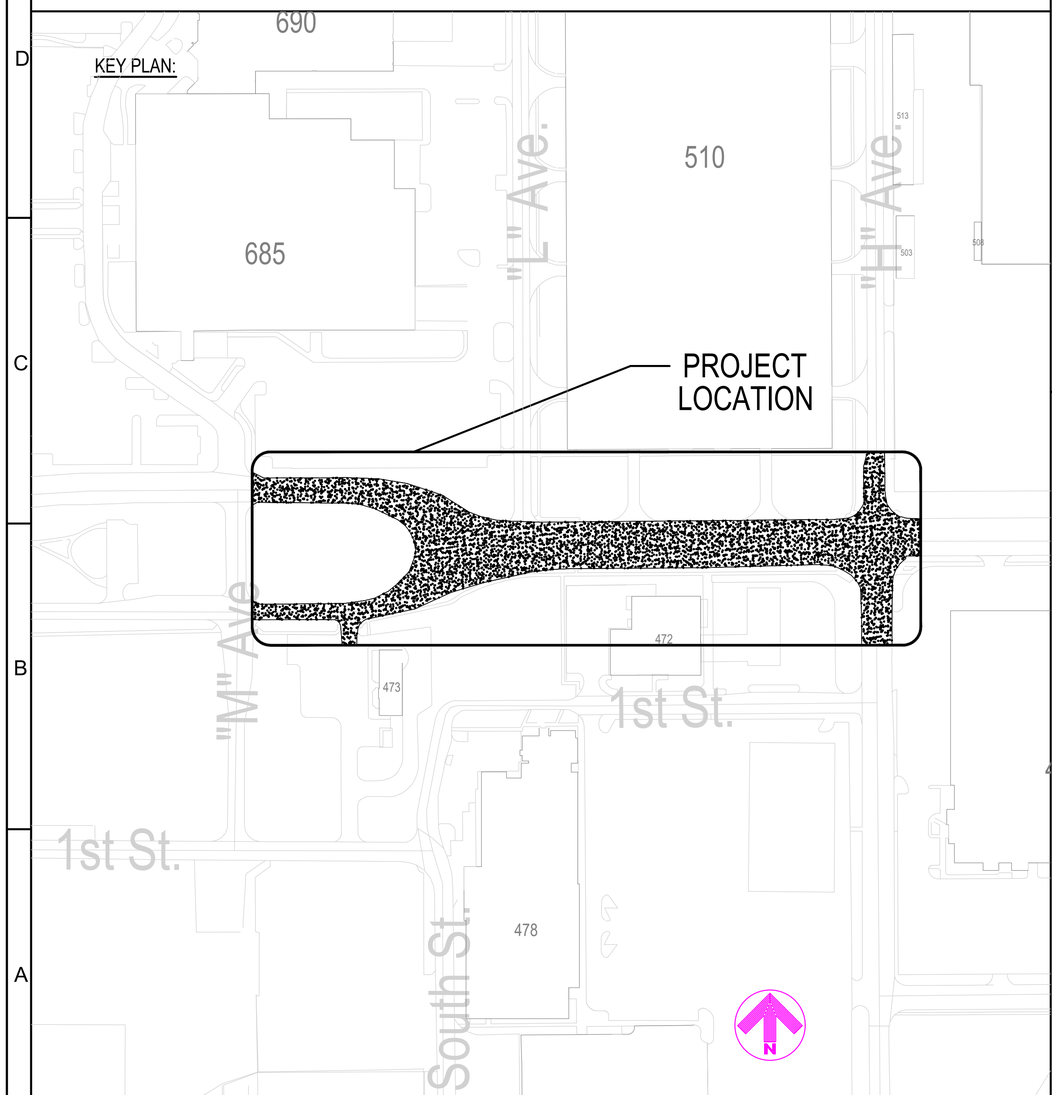
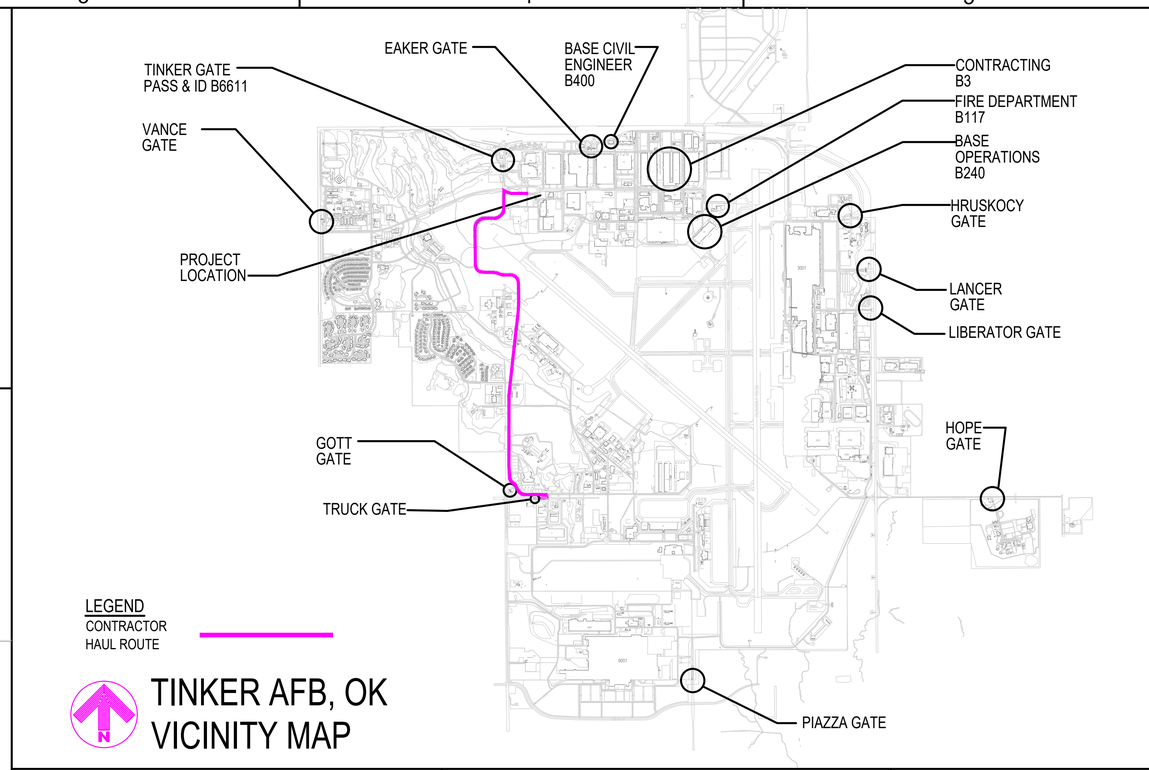
WWYK190230
REPAIR ARNOLD AVE BETWEEN H-AVE AND M-AVE

KEY PLAN:





LEGEND
CONTRACTOR HAUL ROUTE

TINKER AFB, OK VICINITY MAP

GENERAL NOTES:

1. BRAND NAMES: REFERENCE TO SPECIFIC BRAND NAMES OR COMPANIES IS FOR THE PURPOSE OF ESTABLISHING MINIMUM QUALITY STANDARDS, IDENTIFICATION AND GUIDANCE AND IS NOT INTENDED TO LIMIT SELECTION OF OTHER MANUFACTURERS THAT ARE EQUAL OR EXCEED THE SPECIFIED ITEMS IN TERMS OF PHYSICAL PROPERTIES, INCLUDING, COLOR RANGE, FINISH, DURABILITY, APPEARANCE, PERFORMANCE CHARACTERISTICS, AND OTHER FACTORS. OTHER PRODUCTS, MATERIALS, COLORS AND SYSTEMS, MAY BE SUBMITTED FOR EVALUATION AND APPROVAL/DISAPPROVAL BY THE CONTRACTING OFFICER.
2. THIS SET OF CONSTRUCTION DOCUMENTS SHALL BE CONSIDERED AS A WHOLE IN THAT THE GENERAL CONTRACTOR AND ALL THE SUB-CONTRACTORS ARE RESPONSIBLE FOR THE INFORMATION PRESENTED ON ALL SHEETS ON THE SET OF DRAWINGS AND ALL SECTIONS OF THE SPECIFICATIONS.
3. THE CONTRACTOR IS RESPONSIBLE FOR ERECTING ALL CONSTRUCTION FENCING AND BARRICADES AS REQUIRED TO PROTECT CONSTRUCTION MATERIAL AND TO PREVENT ANY UNAUTHORIZED PERSONNEL FROM ENTERING THE CONSTRUCTION SITE.
4. ANY DAMAGE TO THE EXISTING GROUNDS OR FACILITIES CAUSED BY CONSTRUCTION TRAFFIC OR ANY CONSTRUCTION OPERATION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO MATCH OR EXCEED EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE GOVERNMENT.
5. ALL WORK NOTED & LOCATED IN THESE DOCS SHALL BE UNDERSTOOD BY THE CONTRACTOR TO REQUIRE ALL NEW LABOR & MATERIALS UNLESS SPECIFICALLY NOTED TO BE "EXISTING" OR "BY OTHERS".

PROJECT DRAWING INDEX

SEQ.	SHT.	SHEET TITLE
		GENERAL
1	G-001	GENERAL NOTES & VICINITY MAP
		CIVIL
2	C-001	CIVIL SYMBOLS LEGEND AND ABBREVIATIONS
3	C-101	EAST BOUND PHASE 1 CLOSURE FULL DEPTH REPAIR
4	C-102	EAST BOUND PHASE 2 CLOSURE FULL DEPTH REPAIR
5	C-103	WEST BOUND PHASE 3A CLOSURE MILL AND OVERLAY
6	C-104	WEST BOUND PHASE 3B CLOSURE MILL AND OVERLAY
7	C-105	PHASE 1 - EAST BOUND INSIDE LANE
8	C-106	PHASE 1 - EAST BOUND INSIDE LANE
9	C-107	PHASE 1 - EAST BOUND INSIDE LANE
10	C-108	PHASE 2 - EAST BOUND OUTSIDE LANE
11	C-109	PHASE 2 - EAST BOUND OUTSIDE LANE
12	C-110	PHASE 2 - EAST BOUND OUTSIDE LANE
13	C-111	WEST BOUND OUTSIDE LANE 3 SIDEWALK REPLACEMENT
14	C-112	PAVEMENT MARKING 1 EAST AND WEST BOUND
15	C-113	PAVEMENT MARKING 2 EAST AND WEST BOUND
16	DT-101	CIVIL DETAILS
17	DT-102	CIVIL DETAILS
		ELECTRICAL
18	ED-101	ELECTRICAL DEMOLITION PLAN
19	E-101	ELECTRICAL PLAN
20	E-601	LIGHTING POLE FOUNDATION

SIGNATURES

CORROSION ENGINEER: (CECE)	DATE:
CE OPERATIONS: (CECO)	DATE:
ZONE MANAGER:	DATE:
CONSTRUCTION MANAGEMENT: (CECE)	DATE:
FIRE DEPARTMENT: (CEFT)	DATE:
SAFETY:	DATE:
INDUSTRIAL HYGIENE:	DATE:
ENVIRONMENTAL:	DATE:
ASBESTOS EVALUATION:	DATE:
COMMUNICATIONS: (COMM)	DATE:
USING AGENCY:	DATE:
REVIEWED BY:	DATE:
REVIEWED BY:	DATE:
DESIGN MANAGER: (CECE)	DATE:
CHIEF DESIGN BRANCH: (CECE)	DATE:
CHIEF ENGINEER DIR: (CECE)	DATE:
BASE CIVIL ENGINEER: (CE)	DATE:

AFMC
AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE
TINKER AFB, OK

35% DESIGN

PROJECT INFORMATION
WWYK190230
REPAIR ARNOLD AVE BETWEEN H AVE AND M AVE
TINKER AIR FORCE BASE, OKLAHOMA

REVISIONS

MARK	DATE	DESCRIPTION

MANAGEMENT INFORMATION
ISSUE DATE:11/19/2021
DESIGN GROUP:THDR-SRM
DESIGNED BY:P GOUCHER
DRAWN BY:K LEE
CHECKED BY:J OLI
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SHEET TITLE
GENERAL NOTES AND VICINITY MAP

SHEET NUMBER
G-001
SHEET 01 OF 20

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	ABANDONED LINE
	EXISTING LINE
	NEW LINE
CA	COMPRESSED AIR LINE
CM	COMMUNICATION LINE
FW	FIRE PROTECTION WATER LINE
G	NATURAL GAS LINE
IW	INDUSTRIAL WASTE LINE
JP	FUEL LINE
OE	OVERHEAD ELECTRIC LINE
RD	ROOF DRAIN LINE
SD	STORM DRAIN LINE
SS	SANITARY SEWER LINE
ST	STEAM LINE
UE	UNDERGROUND ELECTRIC LINE
W	WATER LINE
	PROPERTY LINE
	PROJECT BOUNDARY LINE
	DITCH
	FENCE
	RAILROAD
	RISER DOWN (ELBOW)
	RISER UP (ELBOW)
	TEE CONNECTION
	GATE VALVE
	CHECK VALVE
	FIRE HYDRANT
	"Y" TYPE
	FLOW IN DIRECTION OF ARROW
	STRAIGHT AND TURN ARROW
	STRAIGHT DIRECTION ARROW
	PARKING TURN ARROW
	HANDICAP CHAIR SYMBOL
	HORIZONTAL CURVE DATA

H. CURVE #_
DESIGN SPEED =
P.I. = _____
P.I. N = _____
P.I. E = _____
Δ= _____
Dc = _____
R = _____
Lc = _____
L = _____

SYMBOL	DESCRIPTION
RR	RAIL ROAD SIGNAL
	MANHOLE
	SIGN
+ 1242.21	EXISTING SPOT ELEVATION
	NEW SPOT ELEVATION
J	JUNCTION BOX
MW	MONITORING WELL
	VALVE
PS	PUMP STATION
	METER
	HEADWALL
	PRIMARY CONTROL PT
	SECONDARY CONTROL PT
	CORE DRILL HOLE UNDRILLED
	CORE DRILL HOLE DRILLED
CO	CLEAN OUT
	DROP/AREA INLET
	CURB/AREA INLET
	CONIFEROUS TREE
	GENERIC TREE
1	KEY NOTE
1.	GENERAL NOTE
1	REVISION TAG
N	NORTH ARROW

DWG NUMBER
SHEET DWG SHOWN
1
A-1
DRAWING NAME
SCALE: 1/4"=1'-0"
DWG NAME
DWG SCALE

DRAWING TITLE

DIRECTION TAKEN
SECTION NUMBER
2
S-2
SHEET SECTION SHOWN

SECTION REFERENCE

CIVIL ABBREVIATIONS

A	
ABV	ABOVE
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
APPD	APPROVED
APPROX	APPROXIMATE
ASSY	ASSEMBLY
AVG	AVERAGE
B	
BLDG	BUILDING
BLW	BELOW
BOP	BEGINNING OF PROJECT
BOT	BOTTOM
BTWN	BETWEEN
C	
C TO C	CENTER TO CENTER
CFS	CUBIC FEET PER SECOND
CGMP	CORRUGATED METAL PIPE
CICI	CAST IRON CURB INLET
CIP	CAST IRON PIPE
CIR	CIRCLE,CIRCULAR
℄	CENTER LINE
CL	CENTERLINE
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUE
CONTR	CONTRACTOR
CTR	CENTER
CU	CUBIC
CU FT or CF	CUBIC FOOT OR FEET
CU IN or CI	CUBIC INCH OR INCHES
CM	COMMUNICATION
D	
Dc	DEGREE OF CURVE
DEG or ^	DEGREE
DEPT	DEPARTMENT
DET	DETAIL
DIA or 0	DIAMETER
DIAG	DIAGRAM
DIM	DIMENSION
DN	DOWN
DWG	DRAWING
E	
E	EAST
EA	EACH
E/E	END TO END
EL	ELEVATION
ELEC	ELECTRIC, ELECTRICAL
EMER	EMERGENCY
ENGR	ENGINEER
EOP	END OF PROJECT
EQUIP	EQUIPMENT
EST	ESTIMATE
EXIST	EXISTING
EXP	EXPOSED
EXP JT	EXPANSION JOINT
EXT	EXTERIOR, EXTERNAL
F	
FDN	FOUNDATION
FIG	FIGURE
FIN	FINISH
FL	FLOOR
FL MTD	FLOOR MOUNTED
FPS	FEET PER SECOND
FR	FROM
FT	FOOT, FEET
FTF	FACE TO FACE
FL	FLOW LINE
G	
G	NATURAL GAS
GA	GAUGE
GAL	GALLON, GALLONS
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
GR	GRADE
G	GUTTER
H	
HD	HEAD
HDPE	HIGH DENSITY POLYETHELYNE
HGT	HEIGHT
HORZ	HORIZONTAL

I	
∆	INTERIOR ANGLE
IAW	IN ACCORDANCE WITH
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH, INCHES
INT	INTERIOR, INTERNAL
INV	INVERT
IW	INDUSTRIAL WASTE
J	
JB	JUNCTION BOX
JT	JOINT
K	
K or M	THOUSAND
KP	KICK PLATE
L	
∠	ANGLE
Lc	LENGTH OF CURVE
LAB	LABORATORY
LB	POUND, POUNDS
LF	LINEAR FEET
LG	LONG
M	
M or K	THOUSAND
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MED	MEDIUM
MET	METAL
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MOD	MODEL, MODIFY
MTG	MOUNTED
N	
N	NORTH
NIP	NIPPLE
NO. or #	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPP	OPPOSITE
ORIG	ORIGINAL
OZ	OUNCE
P	
PAR	PARALLEL
PC	POINT OF CURVATURE
PERF	PERFORATED
PERP	PERPENDICULAR
PH	PHASE
PI	INTERSECTION
PL	PLATE
PLAT	PLATFORM
PLMB	PLUMBING
PNEU	PNEUMATIC
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQ INCH ABSOLUTE
PSIG	POUNDS PER SQ INCH GAGE
%	PERCENT
PROP	PROPOSED
PT	POINT OF TANGENT
PVC	POLYVINYL CHLORIDE
PVI	THE INTERSECTION OF THE TWO TANGENTS
PVT	END OF THE VERTICAL CURVE
R	
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RCB	REINFORCED CONCRETE BOX
RD	ROOF DRAIN
RECT	RECTANGULAR
RED	REDUCER
REF	REFERENCE, REFER
REQ'D	REQUIRED
ROW	RIGHT OF WAY
0	ROUND, DIAMETER

S	
S	SOUTH
SCI	SEWER CAST IRON PIPE
SCH	SCHEDULE, SCHEDULED
SEC	SECOND
SECT	SECTION
SEW	SEWER
SIM	SIMILAR
SO	SHUT OFF
SPEC	SPECIFICATIONS
SQ	SQUARE
SQ FT or SF	SQUARE FOOT OR FEET
SQ IN	SQUARE INCH OR INCHES
SS	STAINLESS STEEL
STA	STATION
STD	STANDARD
STM	STEAM
STO	STORM WATER LINE
STRUCT	STRUCTURAL
SUP	SUPPLY
SD	STORM DRAIN
T	
T	TANGENT
TEMP	TEMPERATURE
THD	THREAD
THK	THICK, THICKNESS
THRU	THROUGH
TYP	TYPICAL
TOC	TOP OF CURB
TOG	TOP OF GUTTER
TOR	TOP OF RIM
V	
VEL	VELOCITY
VERT	VERTICAL
VF	VERTICAL FEET
VOL	VOLUME
VPI	VERTICAL POINT OF INTERSECTION
W	
W	WATER
W/	WITH
WDW	WINDOW
WI	WROUGHT IRON
WM	WATER METER
W/O	WITHOUT
WT	WEIGHT
Y	
YD	YARD
YS	YIELD STRENGTH

GENERAL CIVIL NOTES:

1. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS, MEASUREMENTS AND LOCATION OF EXISTING FACILITIES, UTILITIES, EQUIPMENT AND OTHER EXISTING CONDITIONS WHICH MAY AFFECT CONSTRUCTION.
2. COORDINATES SHOWN ARE NAD83 STATE PLANE, OKLAHOMA NORTH ZONE. VERTICAL CONTROL IS NAVD88. HORIZONTAL AND VERTICAL DATUM ARE BASED ON TINKER AFB MONUMENTATION.
3. THE CONTRACTOR SHALL PROTECT ALL STORM WATER INLETS DURING CONSTRUCTION.
4. ALL REMOVED MATERIALS SHALL BE DISPOSED OF OFF BASE UNLESS NOTED OTHERWISE.
5. DAMAGE CAUSED BY THE CONTRACTOR TO EXISTING PAVEMENT OR STRUCTURES TO BE LEFT IN PLACE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE GOVERNMENT.
6. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE SPECIFICATIONS AND/OR DRAWINGS.

AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE
TINKER AFB, OK

35% DESIGN

PROJECT INFORMATION
WWYK190230
REPAIR ARNOLD AVE BETWEEN H AVE AND M AVE
TINKER AIR FORCE BASE, OKLAHOMA

REVISIONS
MARK | DATE | DESCRIPTION

MANAGEMENT INFORMATION
ISSUE DATE:11/19/2021
DESIGN GROUP:THDR SRM
DESIGNED BY:M NABYWANIEC
DRAWN BY:K. LEE
CHECKED BY:J.OLI
DESIGN FILE LOCATION:
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SHEET TITLE
CIVIL SYMBOLS LEGEND AND ABBREVIATIONS

SHEET NUMBER
C-001
SHEET 02 OF 20

LEGEND
CONCRETE DEMOLITION
ASPHALT DEMOLITION
TYPE 3 BARRIER
CONE

1
C-101
EAST BOUND PHASE 1 CLOSURE FULL DEPTH REPAIR
SCALE: NTS

N

AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE
TINKER AFB, OK

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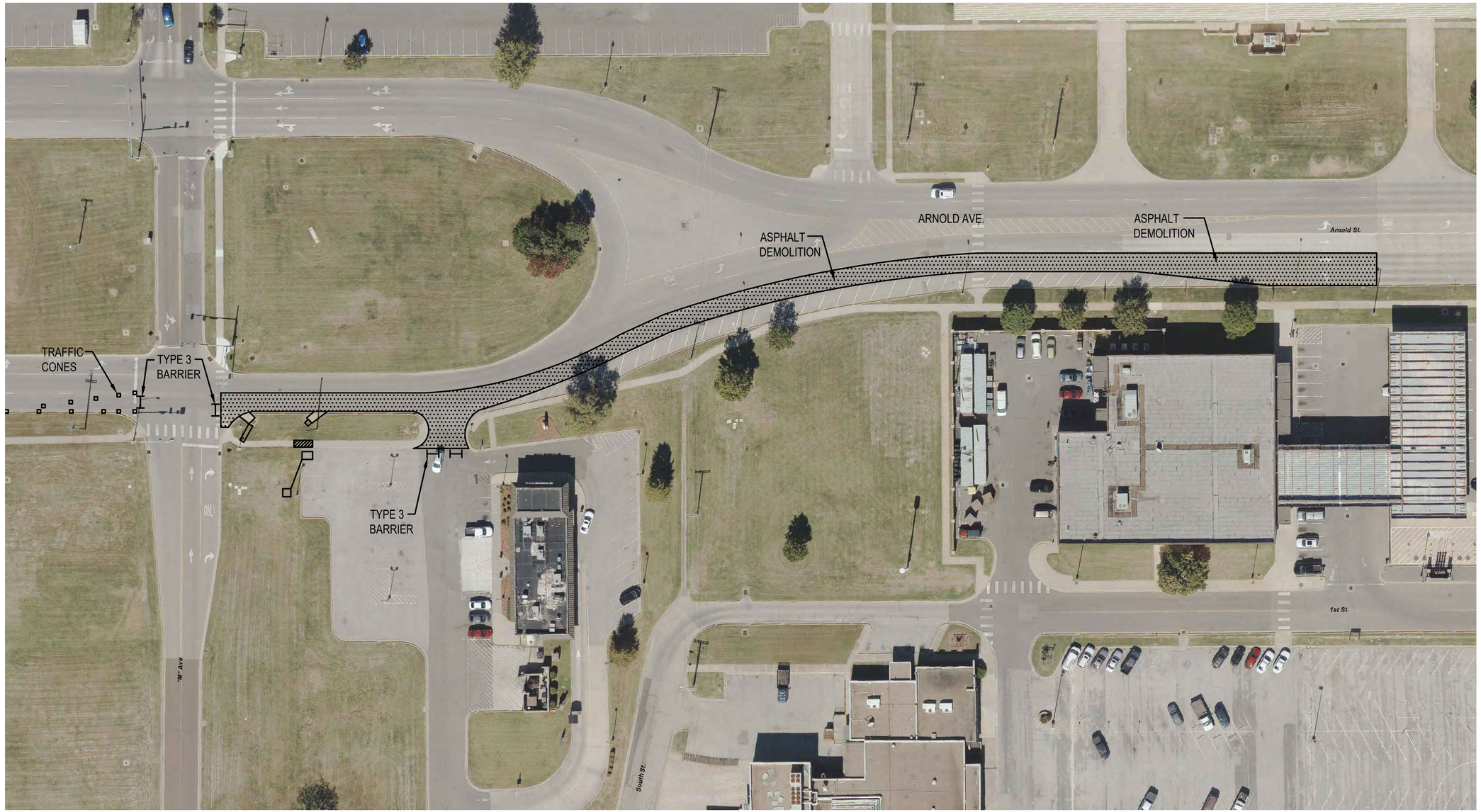
SHEET TITLE:
EAST BOUND PHASE 1 CLOSURE FULL DEPTH REPAIR

SHEET NUMBER
C-101

SHEET 03 OF 20

LEGEND

- ASPHALT DEMOLITION
- TYPE 3 BARRIER
- CONE



1 C-102 EAST BOUND PHASE 2 CLOSURE FULL DEPTH REPAIR

SCALE: NTS

N

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ISSUE DATE: 11/19/2021
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DESIGNED BY: M NABYWANIEC
DRAWN BY: K. LEE
CHECKED BY: J LOLI
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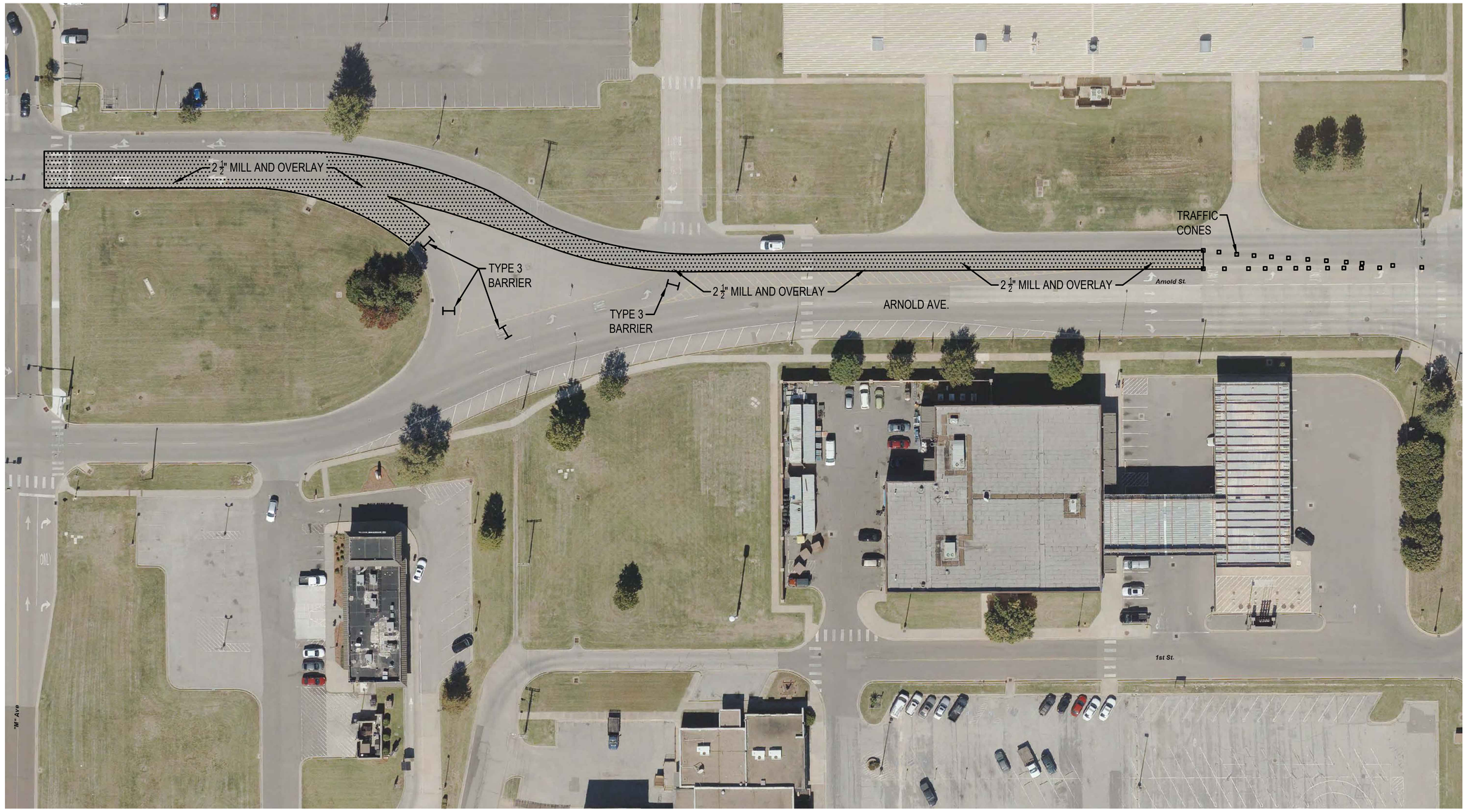
SHEET TITLE
EAST BOUND PHASE 2 CLOSURE FULL DEPTH REPAIR

SHEET NUMBER
C-102

SHEET 04 OF 20

LEGEND	
	2 ½" MILL AND OVERLAY
I	TYPE 3 BARRIER
▫	CONE



1 C-103 WEST BOUND PHASE 3A CLOSURE MILL AND OVERLAY

SCALE: NTS

N

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PROJECT INFORMATION
WWYK190230
REPAIR ARNOLD AVE BETWEEN H AVE AND M AVE
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DRAWN BY: K. LEE
CHECKED BY: J. LOLI
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SHEET TITLE
WEST BOUND PHASE 3A CLOSURE MILL AND OVERLAY

SHEET NUMBER
C-103

SHEET 05 OF 20

LEGEND	
	2 1/2" MILL AND OVERLAY
I	TYPE 3 BARRIER
▫	CONE

1 C-104 WEST BOUND PHASE 3B CLOSURE MILL AND OVERLAY

SCALE: NTS

N

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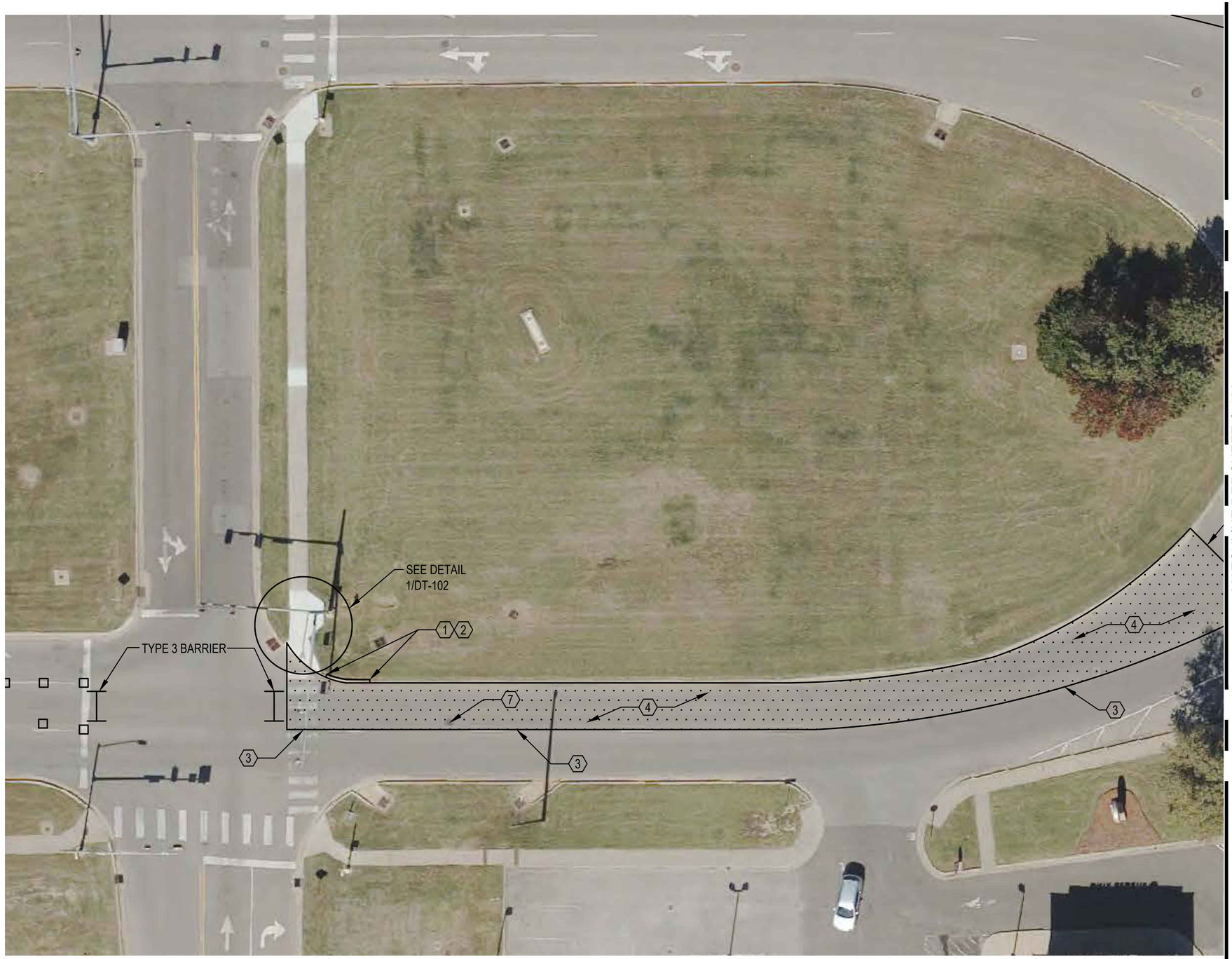
SHEET TITLE
WEST BOUND PHASE 3B CLOSURE MILL AND OVERLAY

SHEET NUMBER
C-104

SHEET 06 OF 20



1 C-105 PHASE 1 - EAST BOUND INSIDE LANE

SCALE: NTS

N

GENERAL NOTES

1. ALL EDGES OF ASPHALT PAVEMENT MUST BE VERTICAL.

KEYED NOTES

1. SAW CUT CURB AND GUTTER
2. REPLACE CURB AND GUTTER
3. SAW CUT ASPHALT PAVEMENT
4. REPLACE PAVEMENT FULL DEPTH
7. MANHOLE (MH)

LEGEND

- FULL DEPTH REPAIR
- TYPE 3 BARRIER
- CONE

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SHEET TITLE
PHASE 1 - EAST BOUND INSIDE LANE

SHEET NUMBER
C-105

SHEET 07 OF 20

1 C-106 PHASE 1 - EAST BOUND INSIDE LANE

SCALE: NTS

N

GENERAL NOTES

1. ALL EDGES OF ASPHALT PAVEMENT MUST BE VERTICAL.

KEYED NOTES

3 SAW CUT ASPHALT PAVEMENT

4 REPLACE PAVEMENT FULL DEPTH

LEGEND

FULL DEPTH ASPHALT REPAIR

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72 ABW CIVIL ENGINEER DIRECTORATE
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PROJECT INFORMATION
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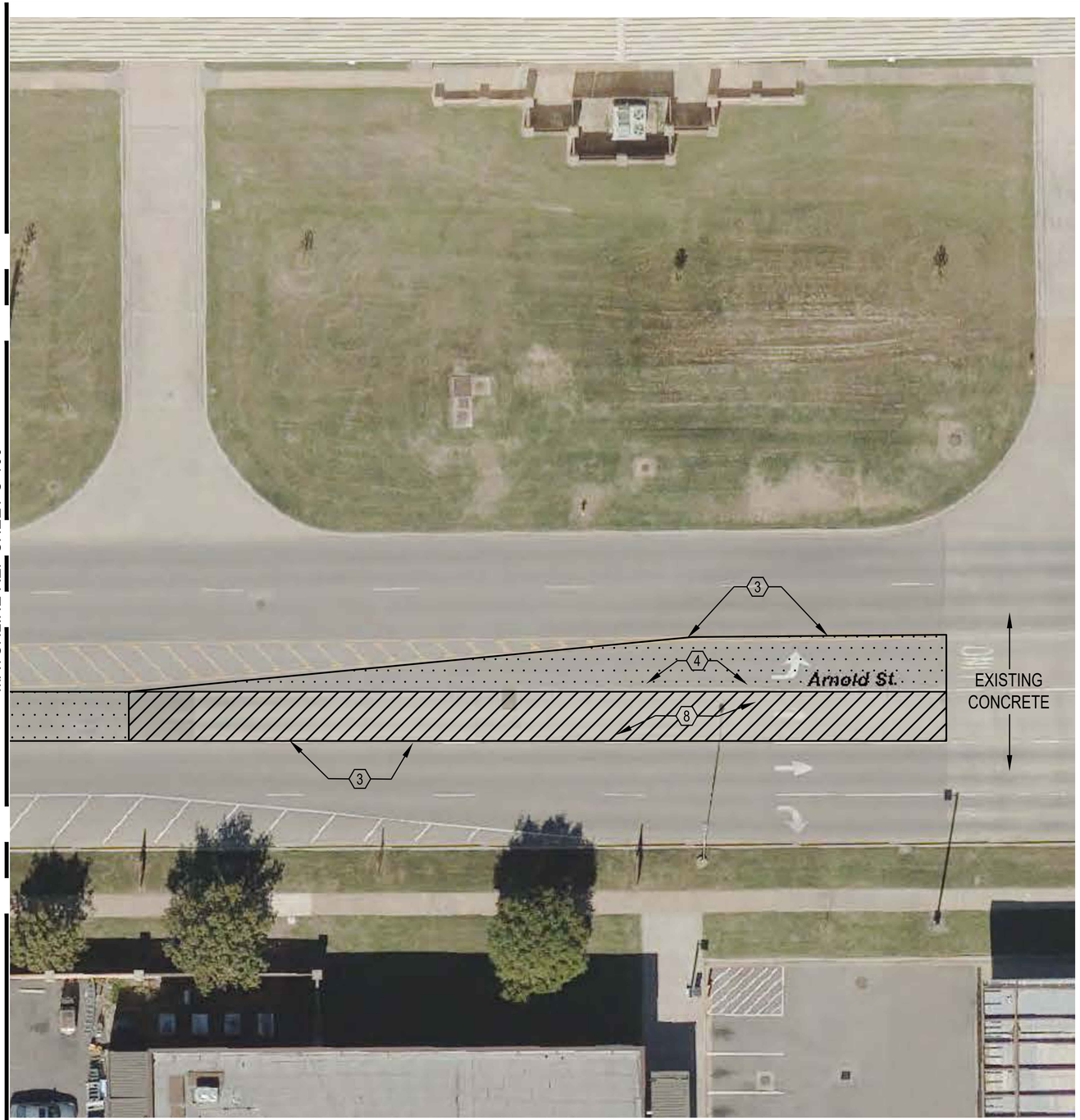
SHEET TITLE
PHASE 1 - EAST BOUND
INSIDE LANE

SHEET NUMBER
C-106

SHEET 08 OF 20

MATCHLINE REF SHEET C-106



1 C-107 PHASE 1 - EAST BOUND INSIDE LANE

SCALE: NTS

N

GENERAL NOTES

1. ALL EDGES OF ASPHALT PAVEMENT MUST BE VERTICAL.

KEYED NOTES

3 SAW CUT ASPHALT PAVEMENT

4 REPLACE PAVEMENT FULL DEPTH

8 DEMOLISH 24" OF CONCRETE WHICH MAY BE ABANDONED CONCRETE STRUCTURE OR ENCASED UTILITY UNDER ROADWAY.

LEGEND

CONCRETE DEMOLITION - NEW PAVEMENT IS ASPHALT

FULL DEPTH ASPHALT REPAIR

AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE
TINKER AFB, OK

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PROJECT INFORMATION
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REPAIR ARNOLD AVE BETWEEN H AVE AND M AVE
TINKER AIR FORCE BASE, OKLAHOMA

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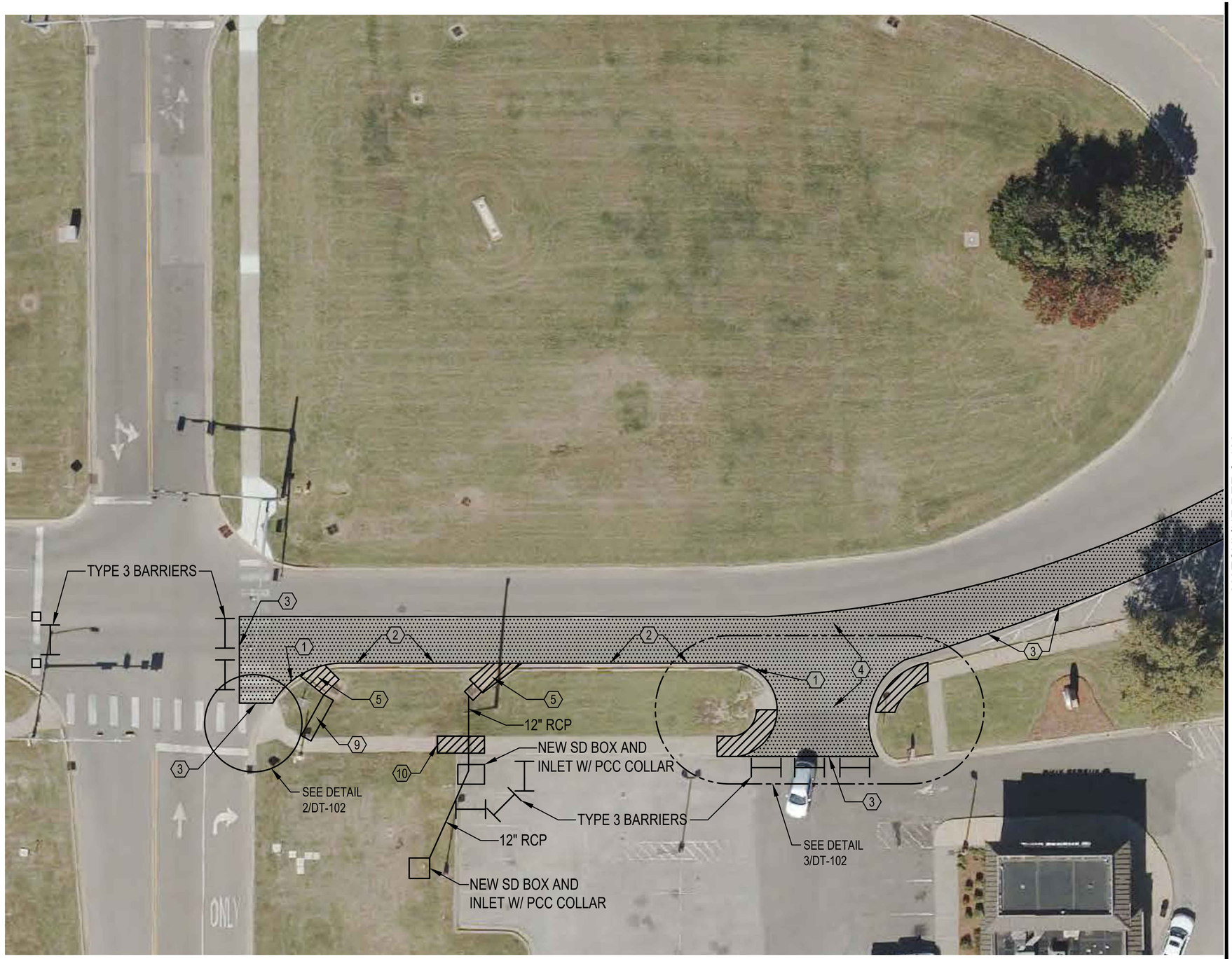
SHEET TITLE
PHASE 1 - EAST BOUND INSIDE LANE

SHEET NUMBER
C-107

SHEET 09 OF 20



1 C-108 PHASE 2 - EAST BOUND OUTSIDE LANE

SCALE: NTS

N

GENERAL NOTES

1. ALL EDGES OF ASPHALT PAVEMENT MUST BE VERTICAL.

KEYED NOTES

1. SAW CUT CURB AND GUTTER
2. REPLACE CURB AND GUTTER
3. SAW CUT ASPHALT PAVEMENT
4. REPLACE PAVEMENT FULL DEPTH
5. REPLACE CONCRETE FLUME
9. INSTALL CONCRETE FLUME
10. REPLACE CONCRETE SIDEWALK

LEGEND

- CONCRETE SIDEWALK REPLACED
- FULL DEPTH ASPHALT REPAIR

AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE
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PROJECT INFORMATION
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TINKER AIR FORCE BASE, OKLAHOMA

REVISIONS

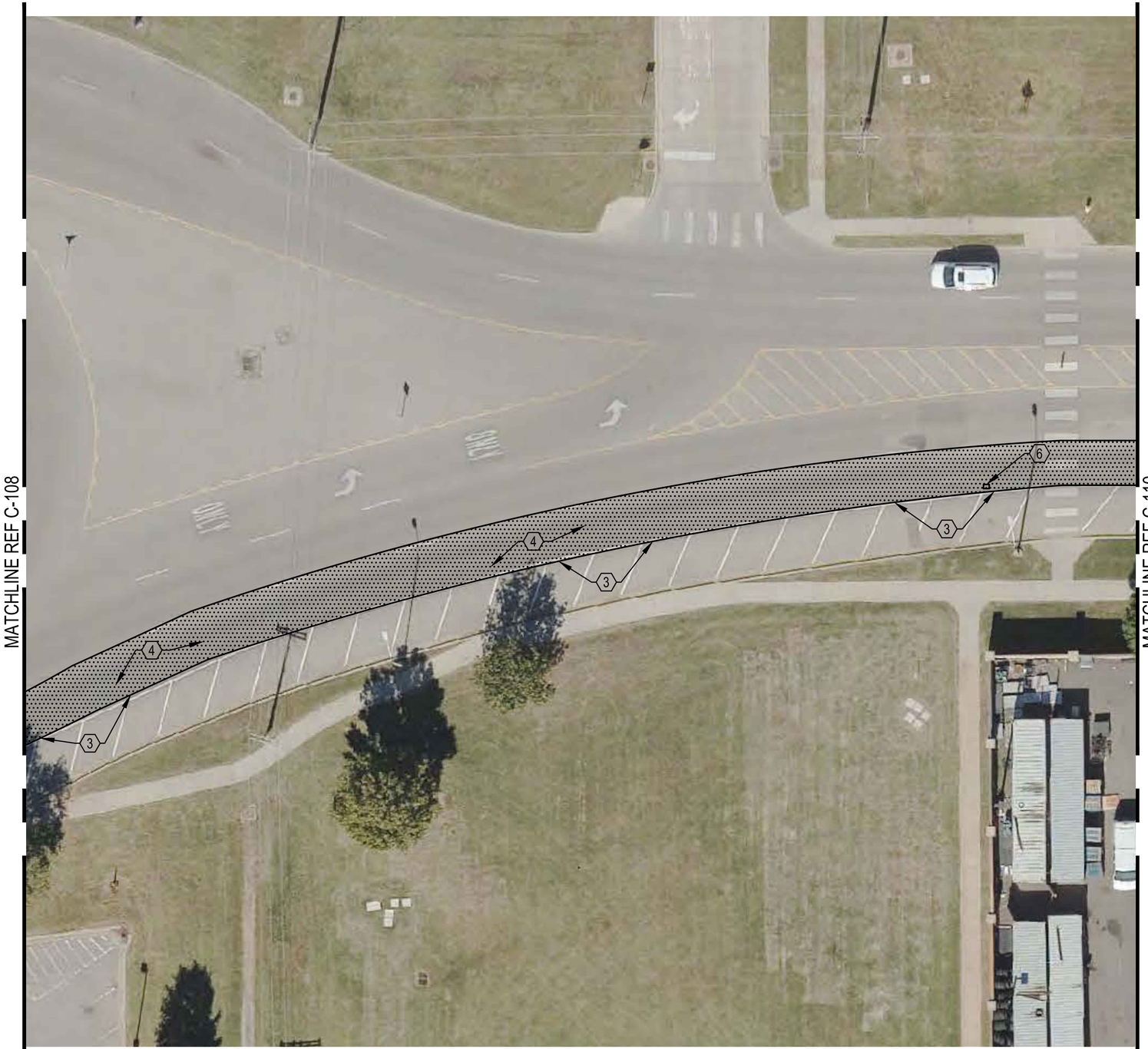
MARK	DATE	DESCRIPTION

MANAGEMENT INFORMATION
ISSUE DATE: 11/19/2021
DESIGN GROUP: THDR SRM
DESIGNED BY: M NABYWANIEC
DRAWN BY: K. LEE
CHECKED BY: J. OLI
DESIGN FILE LOCATION:
J:\Engn\Design\2010s\2019\2019023010_Support\0_3_Drawings\Model

SHEET TITLE
PHASE 2 - EAST BOUND
OUTSIDE LANE

SHEET NUMBER
C-108

SHEET 10 OF 20



1 C-109 PHASE 2 - EAST BOUND LANE

SCALE: NTS

N

GENERAL NOTES

1. ALL EDGES OF ASPHALT PAVEMENT MUST BE VERTICAL.

KEYED NOTES

3 SAW CUT ASPHALT PAVEMENT

4 REPLACE PAVEMENT FULL DEPTH

6 VALVE BOX (VB)

LEGEND

FULL DEPTH ASPHALT REPAIR

AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE
TINKER AFB, OK

35% DESIGN

PROJECT INFORMATION
WWYK190230
REPAIR ARNOLD AVE BETWEEN H AVE AND M AVE
TINKER AIR FORCE BASE, OKLAHOMA

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SHEET TITLE
PHASE 2 - EAST BOUND LANE

SHEET NUMBER
C-109

SHEET 11 OF 20

1 C-110 PHASE 2 - EAST BOUND OUTSIDE LANE
SCALE: NTS

N

GENERAL NOTES

1. ALL EDGES OF ASPHALT PAVEMENT MUST BE VERTICAL.

KEYED NOTES

3 SAW CUT ASPHALT PAVEMENT

4 REPLACE PAVEMENT FULL DEPTH

LEGEND

FULL DEPTH ASPHALT REPAIR

AFMC
AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE
TINKER AFB, OK

35% DESIGN

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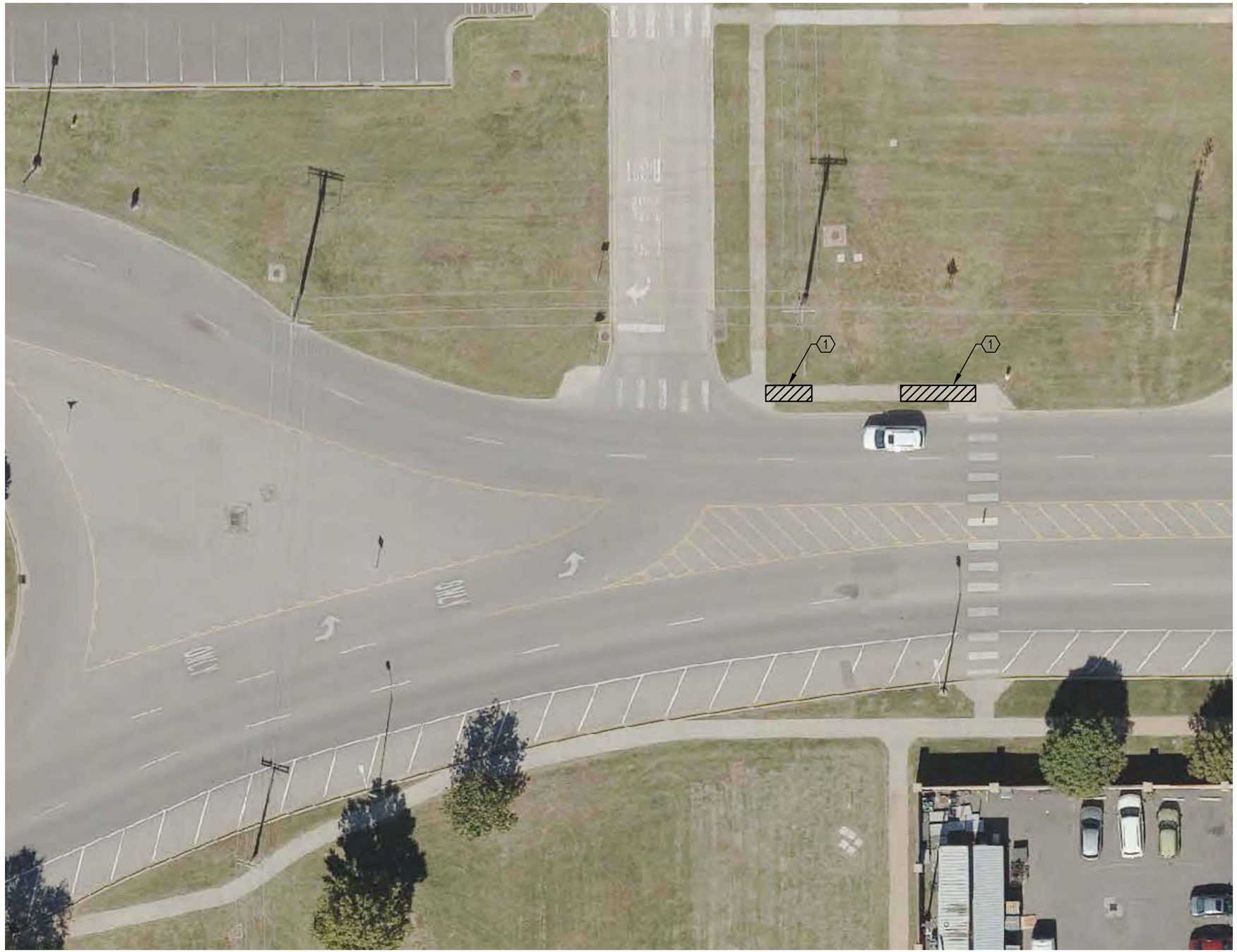
SHEET TITLE:
PHASE 2 - EAST BOUND OUTSIDE LANE

SHEET NUMBER
C-110

SHEET 12 OF 20



KEYED NOTES

1. DEMOLISH THE BROKEN SIDEWALK AND REPLACE WITH NEW PER DETAIL C-12 ON SHEET DT-101.

LEGEND

SIDEWALK TO BE REPAIRED

1 / C-111 PHASE 3B - WEST BOUND OUTSIDE LANE 3 SIDEWALK REPLACEMENT

SCALE: NTS

N

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TINKER AFB, OK

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SHEET TITLE
PHASE 3B - WEST BOUND OUTSIDE LANE 3 SIDEWALK REPLACEMENT

SHEET NUMBER
C-111

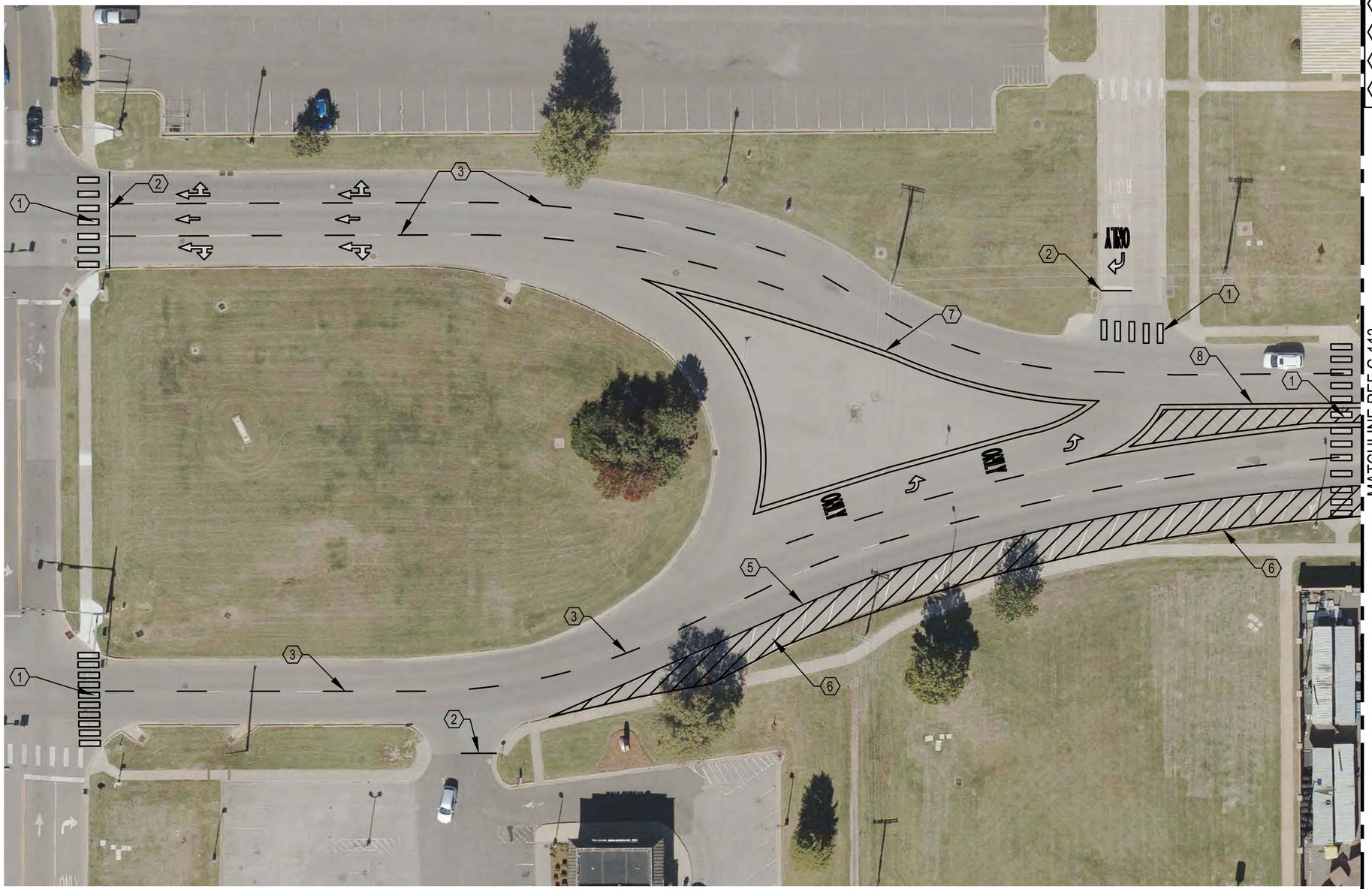
SHEET 13 OF 20

GENERAL NOTES

1. ALL MARKINGS ON ASPHALT AND CONCRETE SHALL BE THERMOPLASTIC WITH BEADS

KEYED NOTES

1. DOMINO CROSSWALK, 2' x 6' WITH A 2' GAP (WHITE)
2. 2' x 10' STOP BAR (WHITE)
3. BROKEN WHITE LANE LINES ARE 6" WIDE, 8' LONG WITH A 24' GAP.
5. 6" SOLID WHITE
6. 6" WHITE CROSS HATCH AT 8' ± OC
7. 6" DOUBLE YELLOW WITH 6" BETWEEN
8. 6" YELLOW CROSS HATCH, 6' CENTERS



1 / C-112 PAVEMENT MARKING 1 EAST AND WEST BOUND

SCALE: NTS

AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE
TINKER AFB, OK

35% DESIGN

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SHEET TITLE
PAVEMENT MARKING-1
EAST AND WEST BOUND

SHEET NUMBER
C-112

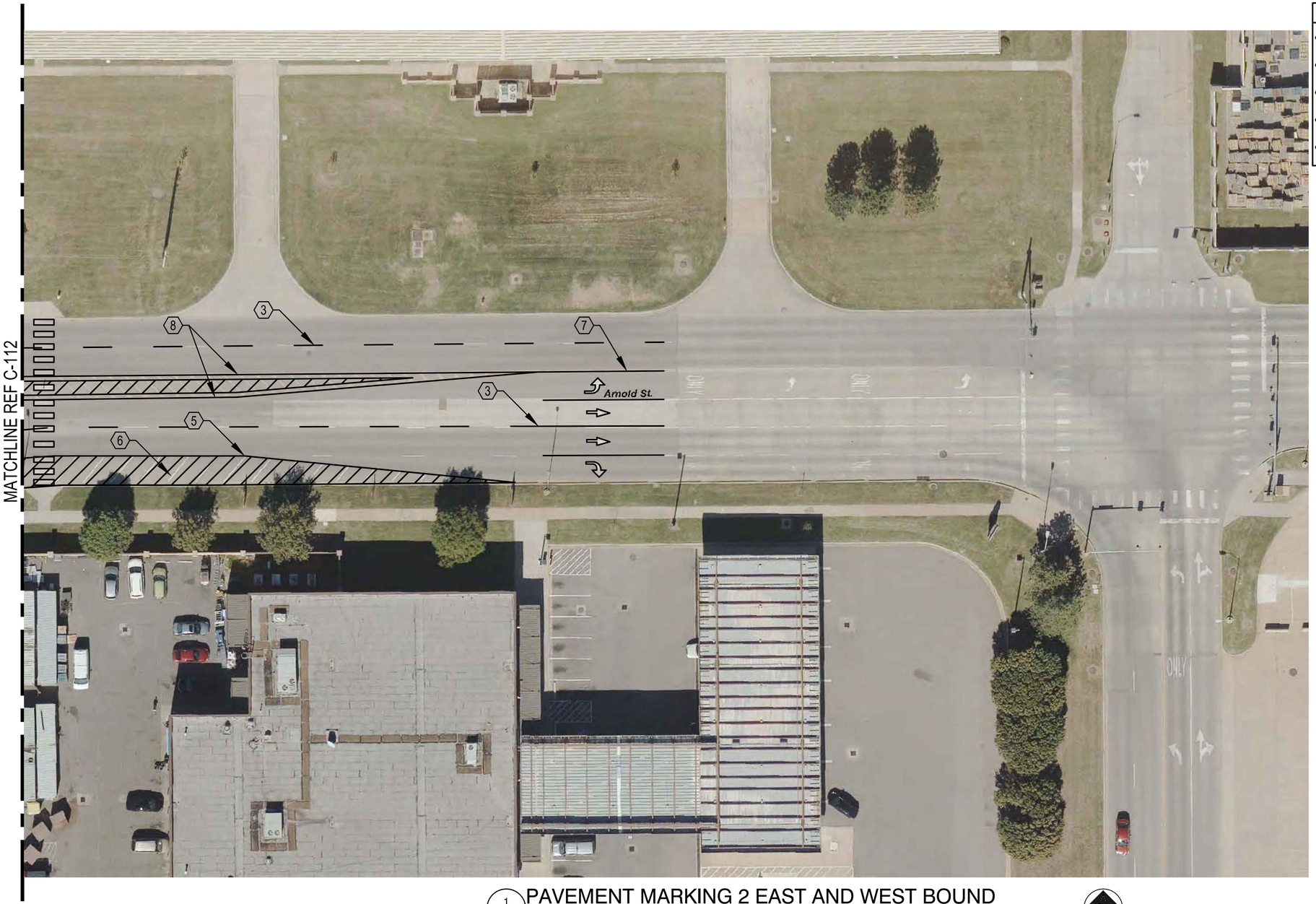
SHEET 14 OF 20

GENERAL NOTES

1. ALL MARKINGS ON ASPHALT SHALL BE THERMOPLASTIC WITH BEADS
2. ALL MARKINGS ON CONCRETE SHALL BE TRAFFIC PAINT WITH BEADS

KEYED NOTES

- (3) BROKEN WHITE LANE LINES ARE 6" WIDE, 8' LONG WITH A 24' GAP.
- (5) 6" SOLID WHITE
- (6) 6" WHITE CROSS HATCH AT 8' ± OC
- (7) 6" DOUBLE YELLOW WITH 6" BETWEEN
- (8) 6" YELLOW CROSS HATCH, 6' CENTERS



1 / C-113 PAVEMENT MARKING 2 EAST AND WEST BOUND

SCALE: NTS

N

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TINKER AFB, OK

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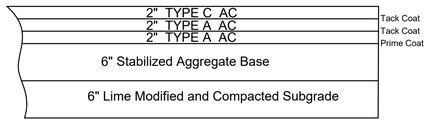
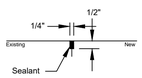
SHEET TITLE
PAVEMENT MARKING-2
EAST AND WEST BOUND

SHEET NUMBER
C-113

SHEET 15 OF 20





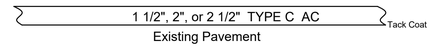
Joint Detail

1. ALL MATERIALS, EQUIPMENT AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
2. AGGREGATE BASE SHALL CONFORM TO ODOT SPECIFICATION 703.1, TYPE C, AND BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
3. SUBGRADE SHALL BE LIME MODIFIED AT 6% AND SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY, HAVE A CBR > 8 AND A PI < 14.
4. DISTURBED MATERIAL BELOW THE MODIFIED SUBGRADE SHALL BE COMPACTED TO 90% MODIFIED PROCTOR DENSITY.

AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE

Tinker AFB, OK Standard Detail

Appr. By:	Rev. BY: mfd	Title: 6" AC Repair	
Appr. Date:	Rev. Date: 3/23/2015	Rev. No.: 1	Detail No.: A-3m

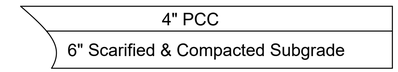


1. ALL MATERIALS, EQUIPMENT AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
2. OVERLAY THICKNESS WILL BE SPECIFIED ON EACH DELIVERY ORDER.

AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE

Tinker AFB, OK Standard Detail

Appr. By:	Rev. BY:	Title: Asphalt Overlay	
Appr. Date:	Rev. Date:	Rev. No.:	Detail No.: A-9

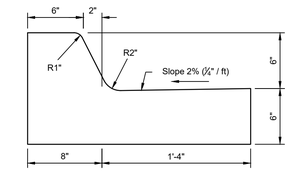


1. ALL MATERIALS, EQUIPMENT AND CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
2. SUBGRADE SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
3. SIDEWALK WIDTH SHALL BE AS SPECIFIED IN THE WORK ORDER. MINIMUM = 5' - 0".
4. TOOLED OR SAWED JOINTS SHALL BE SPACED AT THE WIDTH DIMENSION, BUT NO GREATER THAN 6'.
5. EXPANSION JOINTS SHALL BE PLACED EVERY 10TH JOINT.
6. CROSS SLOPE ALL SIDEWALKS 1/8" PER FOOT IN THE DIRECTION OF NATURAL DRAINAGE.

AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE

Tinker AFB, OK Standard Detail

Appr. By:	Rev. BY:	Title: PCC Sidewalk	
Appr. Date:	Rev. Date:	Rev. No.:	Detail No.: C-12

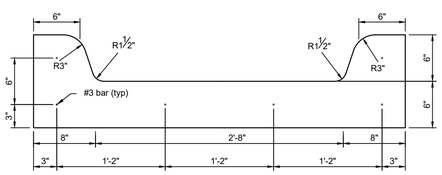


1. ALL MATERIALS, EQUIPMENT AND CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
2. TOOLED OR SAWED JOINTS SHALL BE SPACED WITH THE PCC PAVEMENT JOINTS OR AT 20' IF PAVEMENT IS AC.
3. EXPANSION JOINTS SHALL BE PLACED EVERY 5th JOINT.
4. EXPANSION JOINTS SHALL BE BRIDGED BY 2 EVENLY SPACED 24" X 1" DIAMETER SMOOTH DOWELS WITH ONE END FREE TO SLIP.

AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE

Tinker AFB, OK Standard Detail

Appr. By:	Rev. BY:	Title: 6" Barrier Curb & Gutter	
Appr. Date:	Rev. Date:	Rev. No.:	Detail No.: C-13 - 6

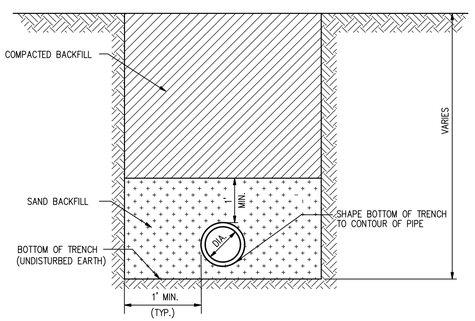


1. ALL MATERIALS, EQUIPMENT AND CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
2. TOOLED OR SAWED JOINTS SHALL BE SPACED EVERY 10 FEET.
3. EXPANSION JOINTS SHALL BE PLACED EVERY 60 FEET.
4. EXPANSION JOINTS SHALL BE BRIDGED BY 4 EVENLY SPACED 24" X 1" DIAMETER SMOOTH DOWELS WITH ONE END FREE TO SLIP.

AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE

Tinker AFB, OK Standard Detail

Appr. By:	Rev. BY:	Title: PCC Drainage Flume	
Appr. Date:	Rev. Date:	Rev. No.:	Detail No.: C-14

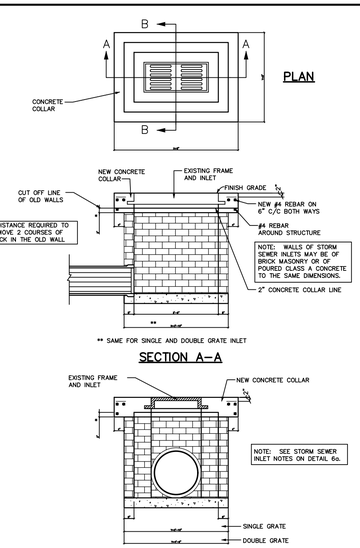


1. THIS DETAIL COVERS THE INSTALLATION OF REINFORCED CONCRETE PIPE (RCP) USED AS DRAINAGE CONDUIT.
2. INSTALLATION AND MATERIALS SHALL MEET THE REQUIREMENTS OF THE ODOT STANDARD SPECIFICATIONS, SECTION 613.
3. TYPICAL SIZES IN USE ON TINKER AFB ARE 12", 15", 18" AND 24".*

AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE

Tinker AFB, OK Standard Detail

Appr. By:	Rev. BY:	Title: RCP Bedding	
Appr. Date:	Rev. Date:	Rev. No.:	Detail No.: D-3



AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE

Tinker AFB, OK Standard Detail

Appr. By:	Rev. BY:	Title: Storm Sewer Inlet	
Appr. Date:	Rev. Date:	Rev. No.:	Detail No.: D-6

STORM SEWER INLET NOTES

1. TO ADJUST THE EXISTING STRUCTURE TO NEW PAVEMENT ELEVATION (UP TO 6"):
   A. REMOVE OLD FRAME AND GRATES.
   B. REMOVE OLD STRUCTURE WALLS
      - FOR BRICK: REMOVE A MINIMUM OF 2 COURSES OF BRICK IN THE OLD WALL.
      - FOR CONCRETE: REMOVE A MINIMUM OF 6" OF STRUCTURE TOP.
   C. STUB ANY NEW PIPE (IF APPLICABLE).
   D. REPLACE NEW WALLS ADJUSTED TO NEW PAVEMENT ELEVATION.
      - FOR CONCRETE: VERTICAL STEEL SHALL BE #4 BARS TO BE EPOXIED INTO THE OLD STRUCTURE WITH THE SAME SPACING AS EXISTING AND SHALL EXTEND TO WITHIN 2" OF TOP OF THE CONCRETE. HORIZONTAL STEEL SHALL BE #4 BARS ON 6" C/C BOTH WAYS.
   E. REINSTALL OLD FRAME AND GRATES. THE NEW GRATE ELEVATION SHALL BE ½" BELOW THE SURROUNDING PAVEMENT.
   F. INSTALL NEW 2" EXPANSION PREFORMED JOINT FILLER AROUND THE INLET STRUCTURE FOR CONCRETE PAVEMENT (DEPTH OF PAVEMENT). NO EXPANSION JOINTS ARE NEEDED IN ASPHALT PAVEMENT.
2. TO MODIFY EXISTING INLET STRUCTURE FROM GRATES TO MANHOLE, ALL OF THE ABOVE NOTES APPLY EXCEPT FOR #5.
   G. INSTALL NEW R6052-F NEENAH (OR EQUAL) MANHOLE FRAME, CONNECTORS AND LID. THE NEW MANHOLE TOP ELEVATION SHALL BE EVEN WITH THE SURROUNDING PAVEMENT.

AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE

Tinker AFB, OK Standard Detail

Appr. By:	Rev. BY:	Title: Storm Sewer Inlet Notes	
Appr. Date:	Rev. Date:	Rev. No.:	Detail No.: D-6a

AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE
TINKER AFB, OK

35% DESIGN

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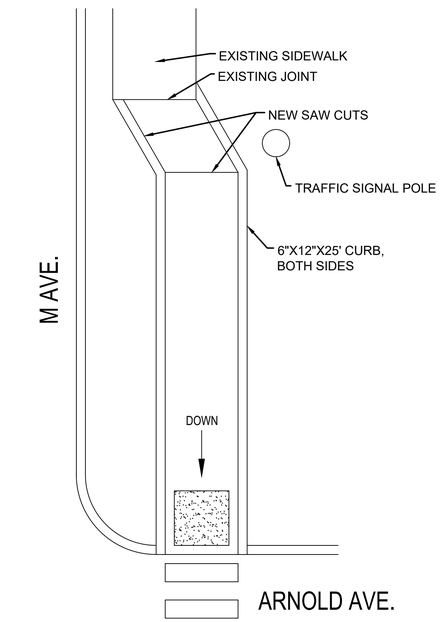
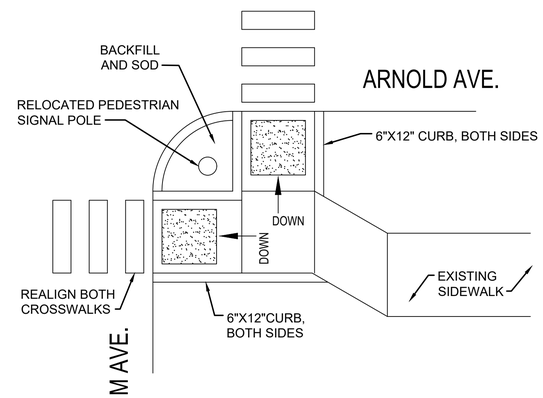
SHEET TITLE
CIVIL DETAILS

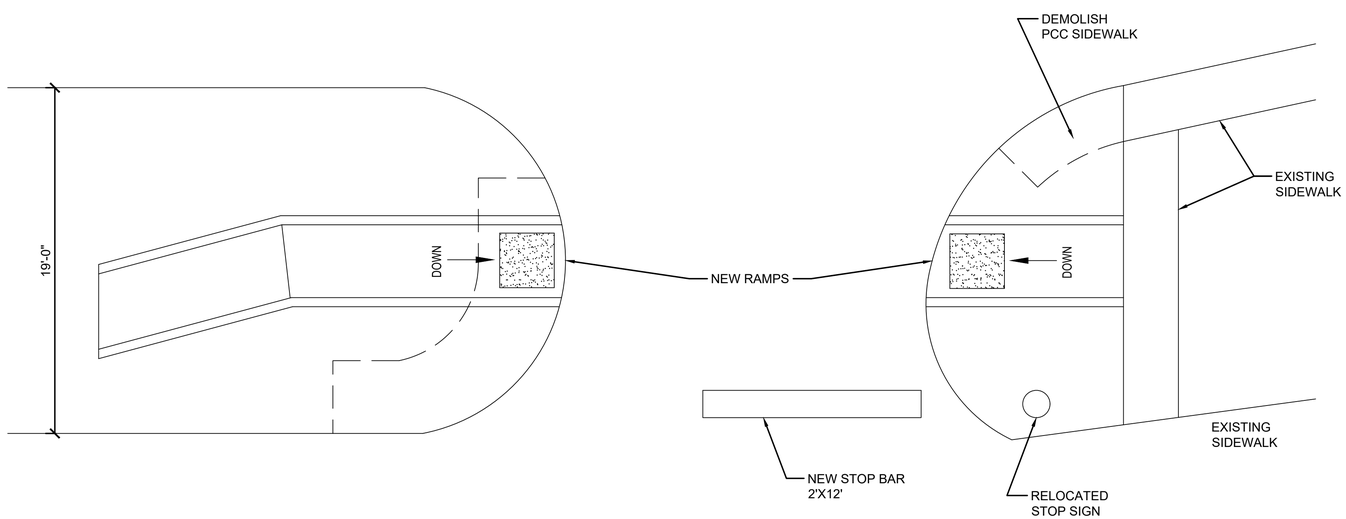
SHEET NUMBER
DT-101
SHEET 16 OF 20



1 DT-102 ARNOLD TO M AVE, EAST BOUND, NORTH SIDE (TYP.)
SCALE: NTS



2 DT-102 SOUTH EAST CORNER OF ARNOLD TO M AVE
SCALE: NTS



3 DT-102 BURGER KING ENTRANCE
SCALE: NTS

AIR FORCE MATERIEL COMMAND
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TINKER AFB, OK

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SHEET TITLE
CIVIL DETAILS

SHEET NUMBER
DT-102

SHEET 17 OF 20

KEYED NOTES

1. DEMOLISH EXISTING LIGHT FIXTURES, POLES, ARMS. BASES TO REMAIN.
2. LOCAL DISCONNECT FOR ROADWAY LIGHTING CIRCUIT.

1 / ED-101 ELECTRICAL DEMOLITION PLAN
SCALE: NTS

N

AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE
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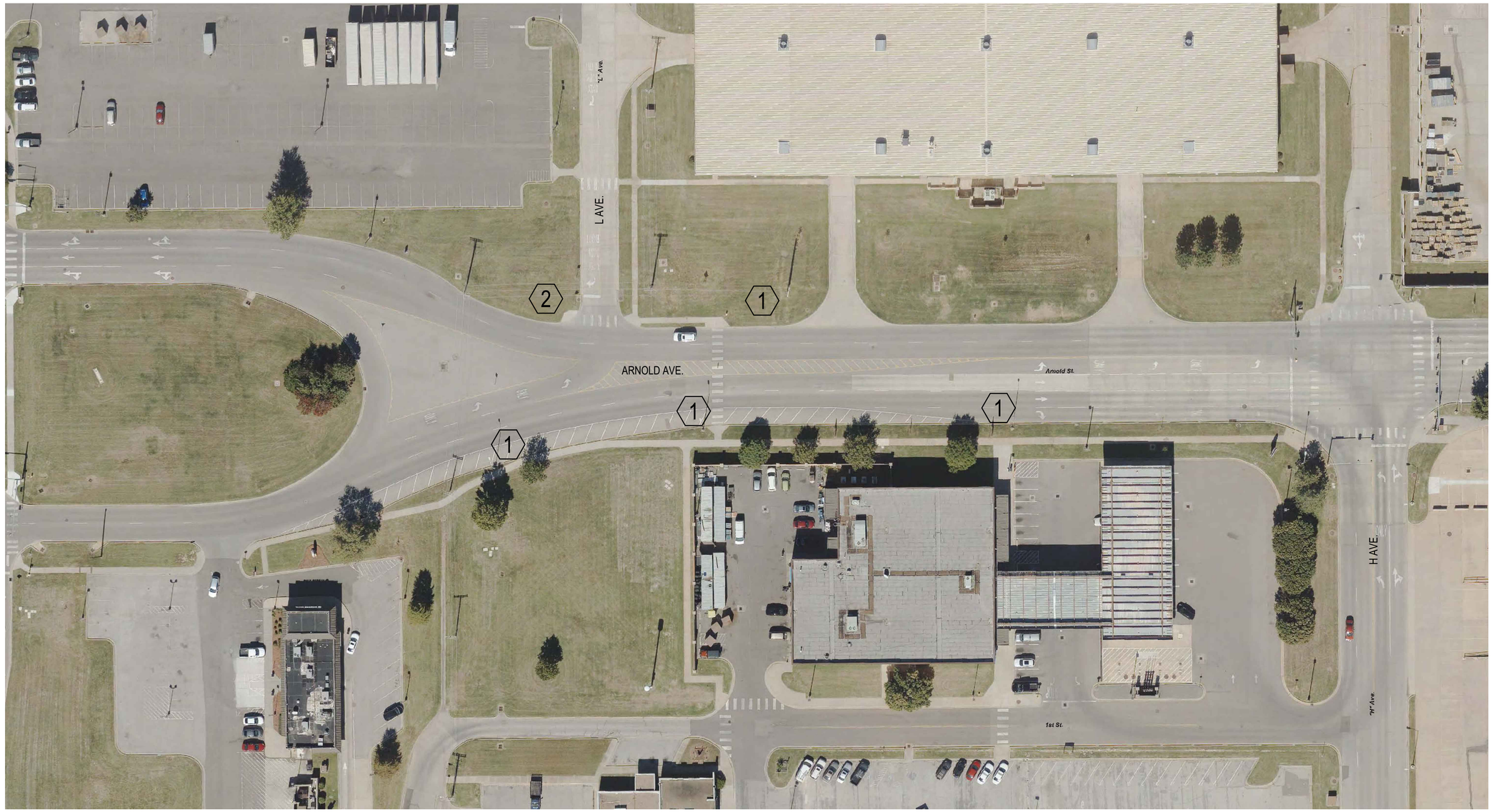
SHEET TITLE
ELECTRICAL DEMOLITION PLAN

SHEET NUMBER
ED-101

SHEET 18 OF 20

KEYED NOTES

1. PROVIDE AND INSTALL NEW ROADWAY LIGHTING FICTURES
2. REPLACE BROKEN HAND-HOLE COVER.



1 / E-101 ELECTRICAL PLAN
SCALE: NTS

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SHEET TITLE
ELECTRICAL PLAN

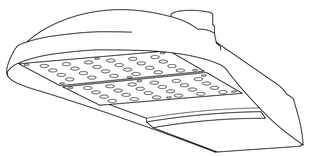
SHEET NUMBER
E-101

SHEET 19 OF 20

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER & CATALOG NUMBER	MOUNTING	HEIGHT	QTY.	LAMPS						INPUT VA (MAX)	GENERIC DESCRIPTION	NOTES
					VA	LUMENS	TYPE	TEMP	CRI	VOLTS			
	GE CURRENT #ERLH-0-14-B3-40-E-GRAY-R	6' ARM	30 FT	1	122	14000	LED	4000K	>70	120-277	122	LUMINAIRE: SINGLE MOUNTED AREA/ROADWAY LED LUMINAIRE WITH HEAVY DUTY CAST ALUMINUM HOUSING WITH TOOL-LESS ENTRY, INTEGRAL HEAT SINKS, HIGH EFFICIENCY DRIVER, INTEGRAL SURGE PROTECTION, HIGH OUTPUT LEDs, TYPE II WIDE DISTRIBUTION OPTICS, HORIZONTAL 2" O.D. TENON MOUNT, IP65 RATED, GRAY POWDER COAT FINISH POLE: 30' ROUND TAPERED STEEL POLE WITH SINGLE 6' MAST ARM, SEAMLESS EXTRUDED TUBE POLE, 4-BOLT CAST BASE FLANGE, FULL BASE 2-PIECE BOLT COVER, INTEGRAL HANDHOLE, GALVANIZED	1

NOTE:
1) LUMINAIRE SELECTION WAS USED AS A BASIS OF DESIGN. ALTERNATE LUMINAIRE SELECTIONS WITHIN THE INDICATED CRITERIA ARE ACCEPTABLE.



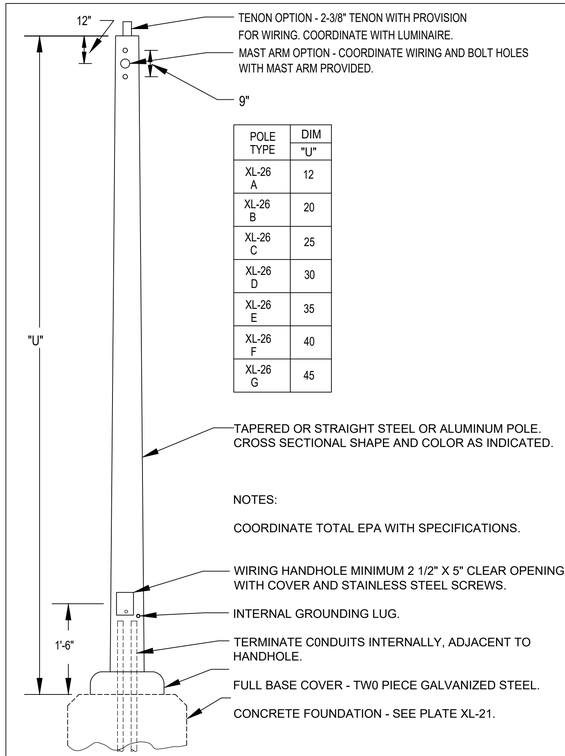
NOTE:A:A: THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

LUMINAIRE REQUIREMENTS:

1. HOUSING - DIE-CAST ALUMINUM HOUSING WITH POWDER COAT FINISH.
2. OPTICS - INJECTION MOLDED OPTICS WITH TYPE I, II, III, IV, OR V DISTRIBUTIONS. BUG UPLIGHT RATING OF U0, WITH GLARE RATING AS DETERMINED BY LIGHTING ZONE INSTALLED.
3. LIGHT SOURCE - SOLID STATE LEDS, 4000K CCT UON, MINIMUM 70 CRI UON, AND MINIMUM EFFICACY OF 110 LUMENS/WATT UON. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
4. DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DIMMABLE DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, AND < 20% THD. ON-OFF CONTROL AND FULLY DIMMABLE DOWN TO 10% MINIMUM OR AS INDICATED IN LUMINAIRE SCHEDULE. MEETS ELEVATED 10KV/10KA REQUIREMENTS PER IEEE.
5. CERTIFICATION - UL LISTED FOR WET LOCATION, ROHS COMPLIANT. COMPLIES WITH IES LM79, LM80 AND TM21 TESTING STANDARDS.
6. MOUNTING - ARM-MOUNTED ON POLE.
7. OPTIONS - MOUNTING ARM LENGTH, LIGHT DISTRIBUTION, HOUSE-SIDE SHIELD, PHOTOCELL, INTEGRATED MOTION SENSOR, AND ANSI 7-PIN RECEPTACLE.

LED ROADWAY LUMINAIRE

REVISED: NOVEMBER 2020 | LIGHTING PLATE: XL-1



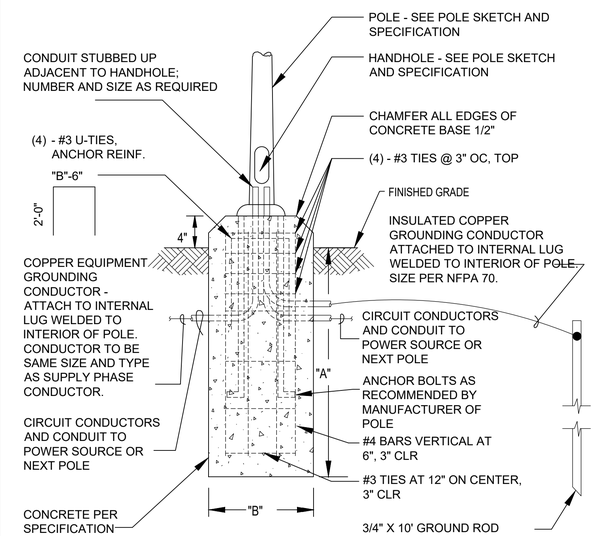
POLE TYPE	DIM "U"
XL-26 A	12
XL-26 B	20
XL-26 C	25
XL-26 D	30
XL-26 E	35
XL-26 F	40
XL-26 G	45

NOTES:

COORDINATE TOTAL EPA WITH SPECIFICATIONS.

ANCHOR BASE STEEL/ALUMINUM POLE

REVISED: NOVEMBER 2020 | LUMINAIRE PLATE: XL-19



POLE HEIGHT	A	B
8'-12'	36"	12"
13'-20'	42"	16"
21'-30'	72"	24"
31'-40'	78"	30"

ANCHOR BASE POLE FOUNDATION

REVISED: AUGUST 2021 | LUMINAIRE PLATE: XL-21

AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE
TINKER AFB, OK

35% DESIGN

PROJECT INFORMATION
WWYK190230
REPAIR ARNOLD AVE BETWEEN H AVE AND M AVE
TINKER AIR FORCE BASE, OKLAHOMA

REVISIONS

MARK	DATE	DESCRIPTION

MANAGEMENT INFORMATION
ISSUE DATE:11/19/2021
DESIGN GROUP: THDR-SRM
DESIGNED BY: F FAULCONER
DRAWN BY: K LEE
CHECKED BY: J OLI
DESIGN FILE LOCATION:
J:\Eng\Design\2010s\2019\201902300\0_Support\0_3_Drawings\Model

SHEET TITLE
LIGHTING POLE FOUNDATION

SHEET NUMBER
E-601

SHEET 20 OF 20