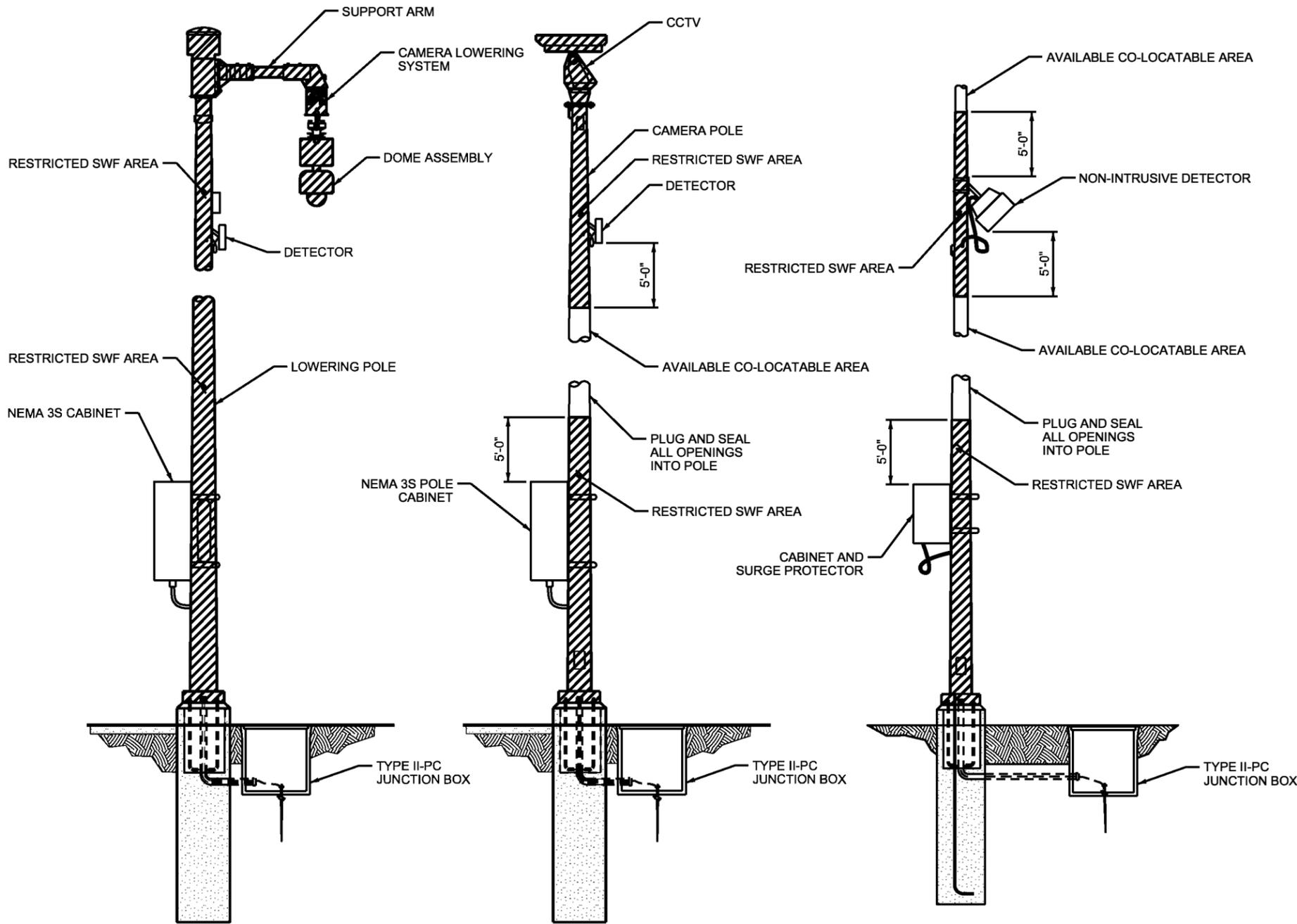


Small Wireless Facilities Installation Guidelines



**SWF MOUNTING LOCATION DETAIL
CAMERA LOWERING POLE**

SWF NOT ALLOWED

**SWF MOUNTING LOCATION DETAIL
NON-LOWERING CCTV POLE**

**SWF MOUNTING LOCATION DETAIL
NID NON-LOWERING AND
LUMINAIRE POLES**

NOTES:

1. SWF EQUIPMENT MAY BE MOUNTED ON THE STATIONARY TRAFFIC CAMERA POLE WITH A MAXIMUM HEIGHT OF 5 FEET BELOW THE BASE OF THE TRAFFIC CAMERA SO AS TO NOT INTERFERE WITH THE MOVEMENT AND VIEW ANGLE OF THE CAMERA.
2. SWF EQUIPMENT MAY NOT BE MOUNTED ON TRAFFIC CAMERA POLE ON WHICH THERE IS A CAMERA LOWERING SYSTEM.
3. THE INSTALLATION OF A SWF IS ALLOWED PROVIDED THE LIGHTING FUNCTION IS NOT IMPACTED TO BOTH THE LIGHTING RANGE AND POWER SUPPLY.
4. SWF MAY BE INSTALLED ONLY ON THE VERTICAL PART OF THE LIGHT POLE AND NOT THE EXTENDED ARM.
5. WIRELESS PROVIDERS ARE REQUIRED TO PROVIDE AN ENGINEERING EVALUATION TO SHOW THE POLE CAN HOLD THE WEIGHT OF THE SWF AND SUSTAIN THE INCREASED WIND LOAD. FOLLOW THE CURRENT UDOT STRUCTURAL DESIGN AND DETAILING MANUAL AND ADHERE TO ALL CURRENT STATE LAWS ON ATTACHMENT TO UDOT STRUCTURES.
6. UDOT WILL PERMIT DRILLING HOLES INTO THE POLE FOR POWER SOURCE CONNECTION, BASED ON THE RESULTS OF THE STRUCTURAL ANALYSIS.
7. UDOT WILL SHARE THE POWER PEDESTAL IF THE WIRELESS PROVIDER INSTALLS A MULTI-METER BASE.
8. IF NO ACCEPTABLE AVAILABLE SPACE IS PRESENT ON THE EXISTING SYSTEM, AN ALTERATION MAY BE PROPOSED.
9. RESTRICTED AREA IS TO ALLOW FOR UDOT PLACED EQUIPMENT SUCH AS SIGNAL HEADS, RADAR DETECTION, DEDICATED SHORT RANGE COMMUNICATION ETC. ALREADY INSTALLED OR PLANNED.
10. IN THE EVENT OF A CONFLICT, THE MORE RESTRICTIVE PROVISION SHALL GOVERN.

LEGEND
 RESTRICTED SWF AREA

REVISION 2: 03/24/2019

UTAH DEPARTMENT OF TRANSPORTATION
 STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION
 SALT LAKE CITY, UTAH

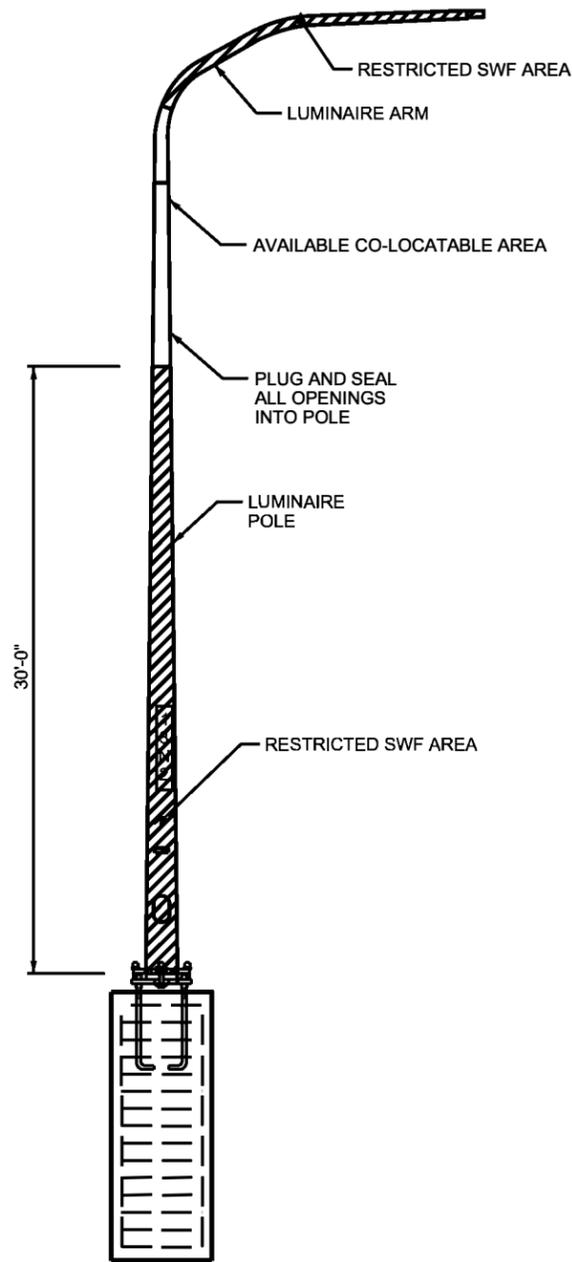
RECOMMENDED FOR APPROVAL
 CHAIRMAN STANDARDS COMMITTEE
 APPROVED
 DEPUTY DIRECTOR

SMALL WIRELESS FACILITY
 (SWF) MOUNTING LOCATION
 - CCTV &
 NON-INTRUSIVE
 DETECTOR POLES

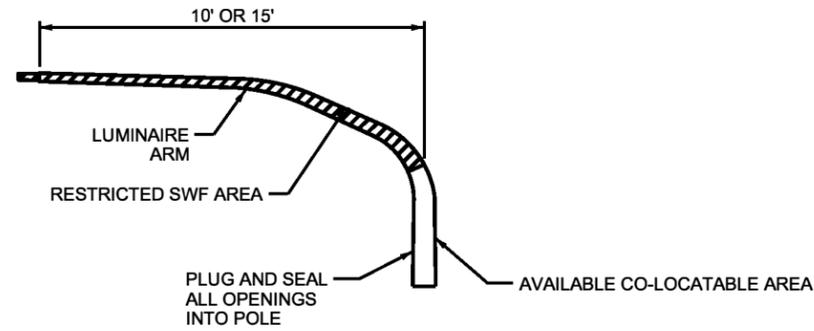
STD. DWG. NO.

SWF - 2

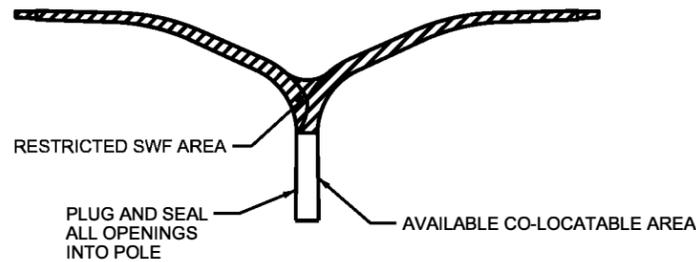
NO	DATE	APPR	REMARKS



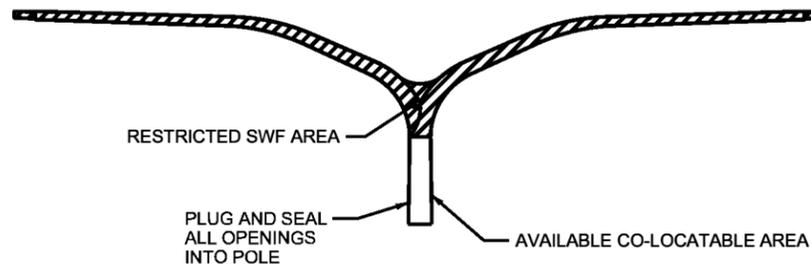
**SWF MOUNTING LOCATION DETAIL
GROUND MOUNTED POLE**



**SWF MOUNTING LOCATION DETAIL
LUMINAIRE ARM**



**SWF MOUNTING LOCATION DETAIL
10' DUAL LUMINAIRE ARM**



**SWF MOUNTING LOCATION DETAIL
15' DUAL LUMINAIRE ARM**

NOTES:

1. THE INSTALLATION OF A SWF IS ALLOWED PROVIDED THE LIGHTING FUNCTION IS NOT IMPACTED TO BOTH THE LIGHTING RANGE AND POWER SUPPLY.
2. SWF MAY BE INSTALLED ONLY ON THE VERTICAL PART OF THE LIGHT POLE AND NOT THE EXTENDED ARM.
3. WIRELESS PROVIDERS ARE REQUIRED TO PROVIDE AN ENGINEERING EVALUATION TO SHOW THE POLE CAN HOLD THE WEIGHT OF THE SWF AND SUSTAIN THE INCREASED WIND LOAD. FOLLOW THE CURRENT UDOT STRUCTURAL DESIGN AND DETAILING MANUAL AND ADHERE TO ALL CURRENT STATE LAWS ON ATTACHMENT TO UDOT STRUCTURES.
4. UDOT WILL PERMIT DRILLING HOLES INTO THE POLE FOR POWER SOURCE CONNECTION, BASED ON THE RESULTS OF THE STRUCTURAL ANALYSIS.
5. UDOT WILL SHARE THE POWER PEDESTAL IF THE WIRELESS PROVIDER INSTALLS A MULTI-METER BASE.
6. IF NO ACCEPTABLE AVAILABLE SPACE IS PRESENT ON THE EXISTING SYSTEM, AN ALTERATION MAY BE PROPOSED.
7. RESTRICTED AREA IS TO ALLOW FOR UDOT PLACED EQUIPMENT SUCH AS SIGNAL HEADS, RADAR DETECTION, DEDICATED SHORT RANGE COMMUNICATION, ETC. ALREADY INSTALLED OR PLANNED.
8. IN THE EVENT OF A CONFLICT, THE MORE RESTRICTIVE PROVISION SHALL GOVERN.

LEGEND
 RESTRICTED SWF AREA

REVISION 2: 03/24/2019

UTAH DEPARTMENT OF TRANSPORTATION
 STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION
 SALT LAKE CITY, UTAH

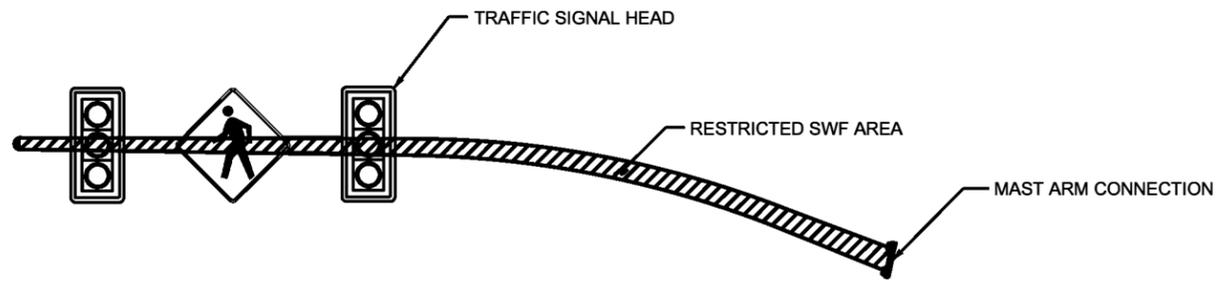
SMALL WIRELESS FACILITY
 (SWF) MOUNTING LOCATION
 - HIGHWAY LUMINAIRE ARM
 AND POLE

STD. DWG. NO.
 SWF - 6

RECOMMENDED FOR APPROVAL
 CHAIRMAN STANDARDS COMMITTEE
 APPROVED
 DEPUTY DIRECTOR

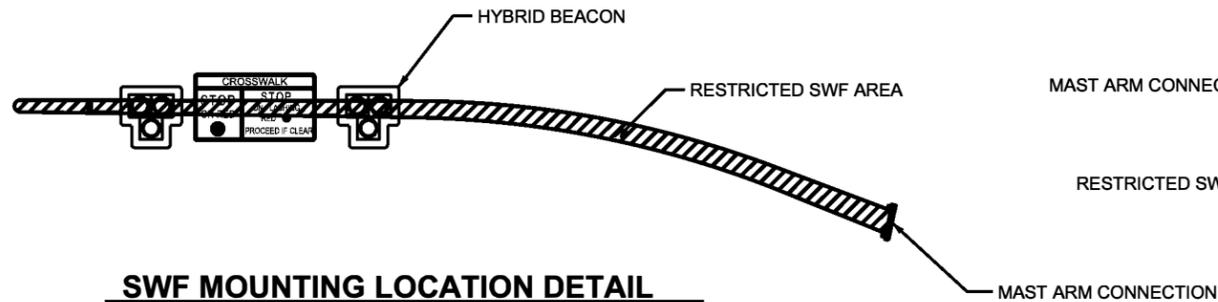
STANDARD DRAWING TITLE

NO. DATE APPR. REMARKS



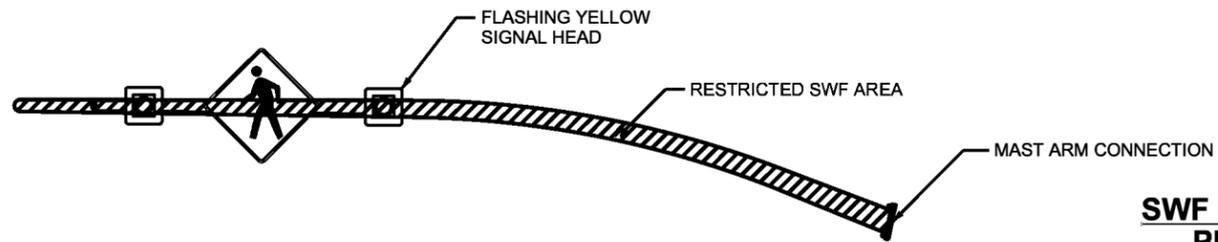
**SWF MOUNTING LOCATION DETAIL
PEDESTRIAN SIGNAL**

SWF NOT ALLOWED



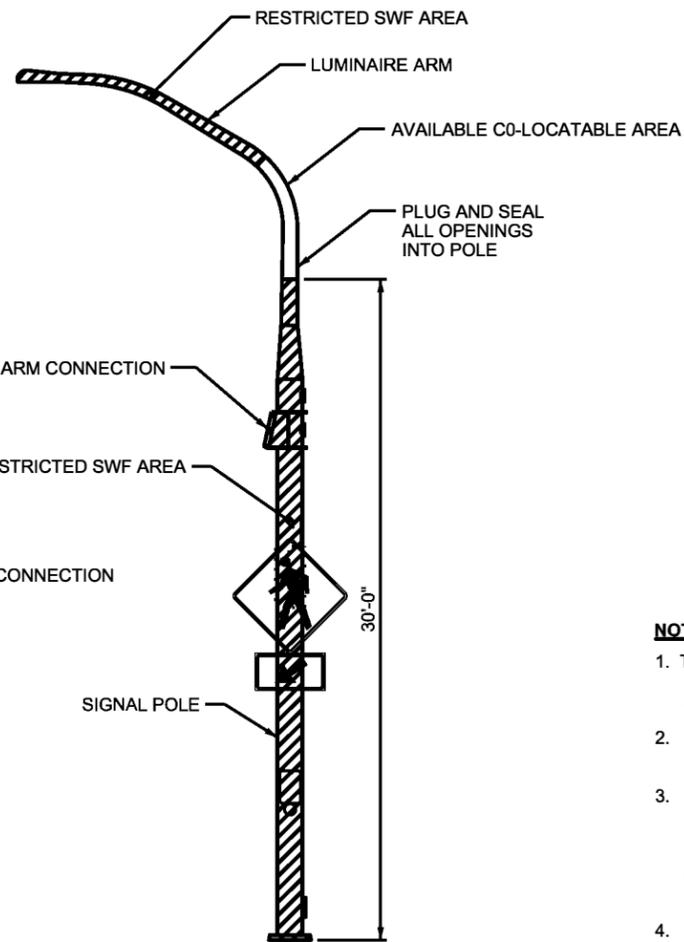
**SWF MOUNTING LOCATION DETAIL
HYBRID BEACON CROSSWALK (HAWK)**

SWF NOT ALLOWED



**SWF MOUNTING LOCATION DETAIL
OVERHEAD FLASHING BEACON**

SWF NOT ALLOWED



**SWF MOUNTING LOCATION DETAIL
PEDESTRIAN SIGNAL POLE**

NOTES:

1. THE INSTALLATION OF A SWF IS ALLOWED PROVIDED THE LIGHTING FUNCTION IS NOT IMPACTED TO BOTH THE LIGHTING RANGE AND POWER SUPPLY.
2. SWF MAY BE INSTALLED ONLY ON THE VERTICAL PART OF THE LIGHT POLE AND NOT THE EXTENDED ARM.
3. WIRELESS PROVIDERS ARE REQUIRED TO PROVIDE AN ENGINEERING EVALUATION TO SHOW THE POLE CAN HOLD THE WEIGHT OF THE SWF AND SUSTAIN THE INCREASED WIND LOAD. FOLLOW THE CURRENT UDOT STRUCTURAL DESIGN AND DETAILING MANUAL AND ADHERE TO ALL CURRENT STATE LAWS ON ATTACHMENT TO UDOT STRUCTURES.
4. UDOT WILL PERMIT DRILLING HOLES INTO THE POLE FOR POWER SOURCE CONNECTION, BASED ON THE RESULTS OF THE STRUCTURAL ANALYSIS.
5. UDOT WILL SHARE THE POWER PEDESTAL IF THE WIRELESS PROVIDER INSTALLS A MULTI-METER BASE.
6. IF NO ACCEPTABLE AVAILABLE SPACE IS PRESENT ON THE EXISTING SYSTEM, AN ALTERATION MAY BE PROPOSED.
7. RESTRICTED AREA IS TO ALLOW FOR UDOT PLACED EQUIPMENT SUCH AS SIGNAL HEADS, RADAR DETECTION, DEDICATED SHORT RANGE COMMUNICATION, ETC. ALREADY INSTALLED OR PLANNED.
8. IN THE EVENT OF A CONFLICT, THE MORE RESTRICTIVE PROVISION SHALL GOVERN.

LEGEND
 RESTRICTED SWF AREA

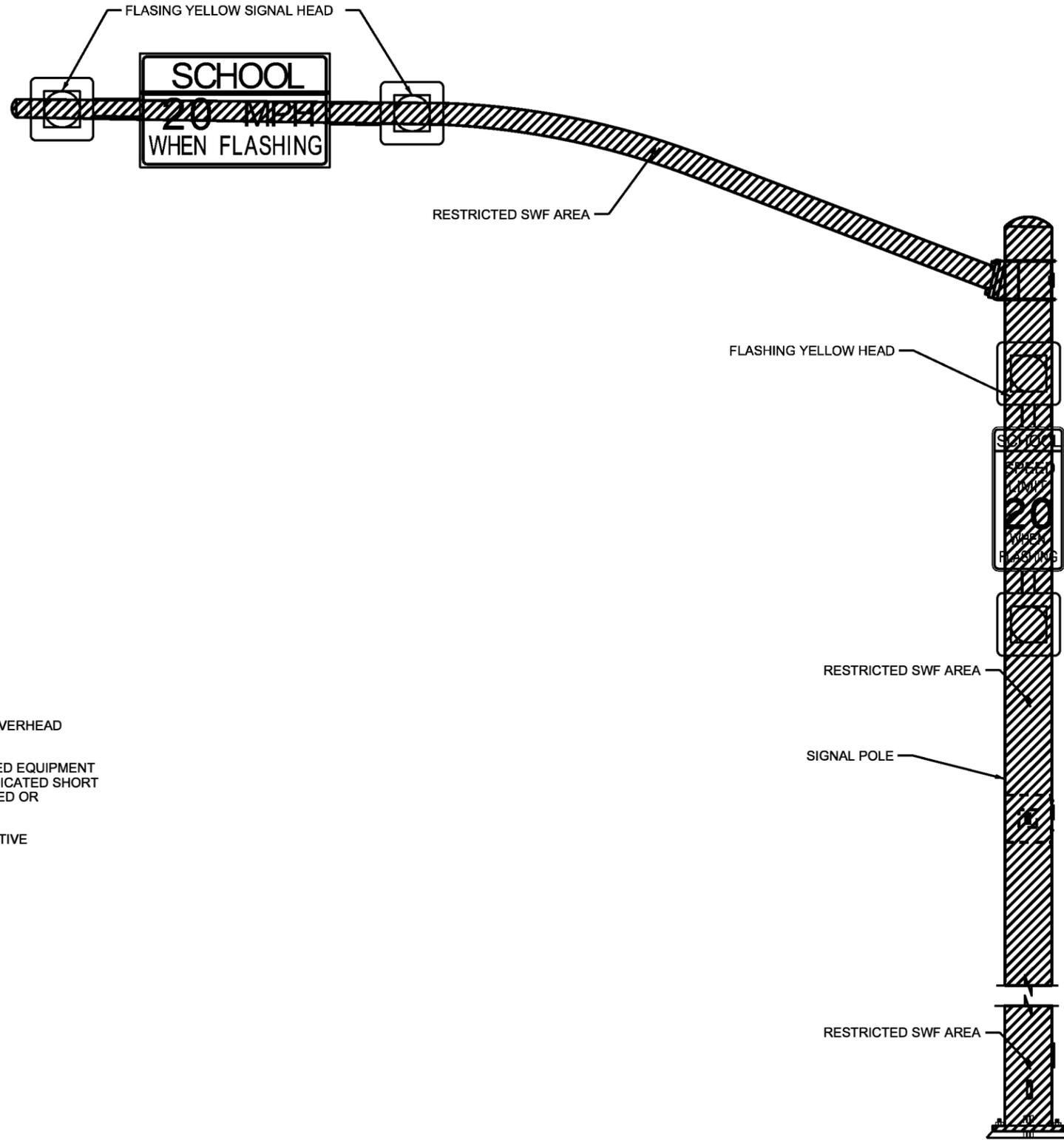
REVISION 2: 03/24/2019			
NO.	DATE	APPR.	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION SALT LAKE CITY, UTAH		XXX XX XXXX DATE
RECOMMENDED FOR APPROVAL	CHAIRMAN STANDARDS COMMITTEE APPROVED	XXX XX XXXX DATE
	DEPUTY DIRECTOR	

**SMALL WIRELESS FACILITY
(SWF) MOUNTING LOCATION
- PEDESTRIAN SIGNALS**

STANDARD DRAWING TITLE

STD. DWG. NO.
SWF - 7



NOTES:

1. SWF EQUIPMENT MAY NOT BE MOUNTED ON AN OVERHEAD SCHOOL SPEED LIMIT ASSEMBLY.
2. RESTRICTED AREA IS TO ALLOW FOR UDOT PLACED EQUIPMENT SUCH AS SIGNAL HEADS, RADAR DETECTION, DEDICATED SHORT RANGE COMMUNICATION, ETC. ALREADY INSTALLED OR PLANNED.
3. IN THE EVENT OF A CONFLICT, THE MORE RESTRICTIVE PROVISION SHALL GOVERN.

LEGEND

 RESTRICTED SWF AREA

**SWF MOUNTING LOCATION DETAIL
OVERHEAD SCHOOL SPEED LIMIT ASSEMBLY
SWF NOT ALLOWED**

REVISION 2: 03/24/2019

UTAH DEPARTMENT OF TRANSPORTATION
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION
SALT LAKE CITY, UTAH

RECOMMENDED FOR APPROVAL
CHAIRMAN STANDARDS COMMITTEE
APPROVED
DEPUTY DIRECTOR

STANDARD DRAWING TITLE

**SMALL WIRELESS FACILITY
(SWF) MOUNTING LOCATION
- OVERHEAD SCHOOL
SPEED LIMIT ASSEMBLY**

STD. DWG. NO.

SWF - 8

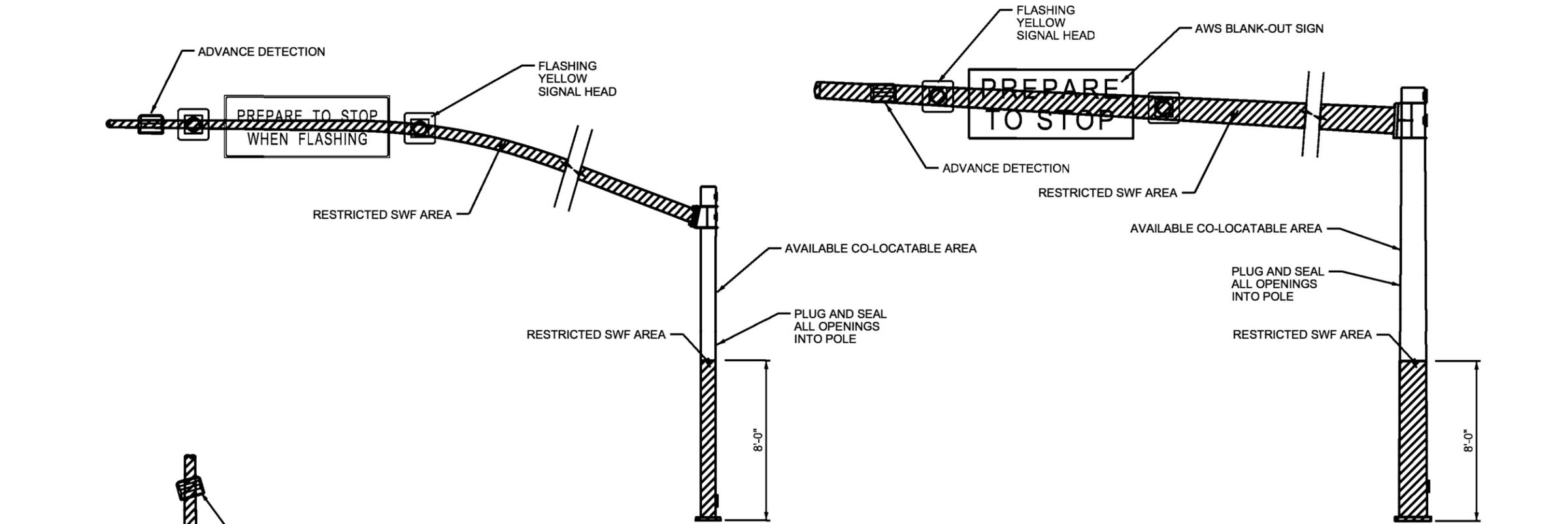
REMARKS

APPR.

DATE

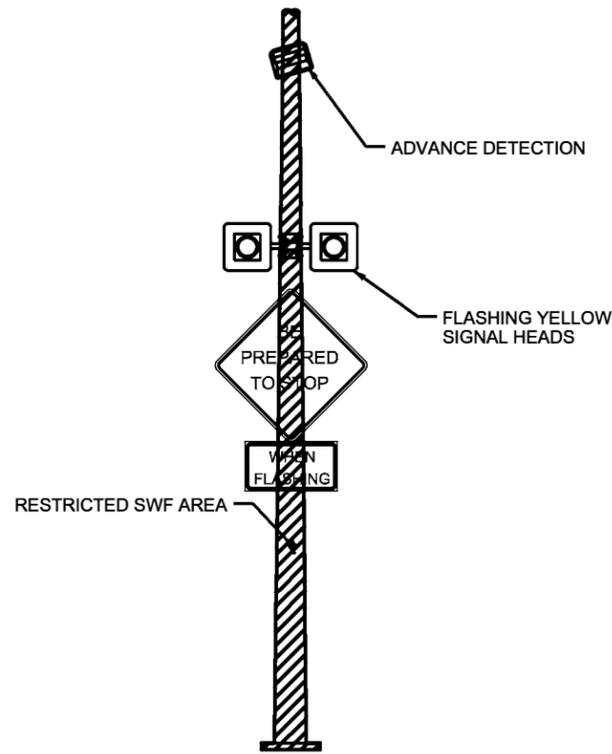
NO.

DATE



**SWF MOUNTING LOCATION DETAIL
OVERHEAD STATIC SIGN**

**SWF MOUNTING LOCATION DETAIL
OVERHEAD BLANK-OUT SIGN**



**SWF MOUNTING LOCATION DETAIL
POST MOUNTED SIGN
SWF NOT ALLOWED**

NOTES:

1. THE INSTALLATION OF A SWF IS ALLOWED PROVIDED THE LIGHTING FUNCTION IS NOT IMPACTED TO BOTH THE LIGHTING RANGE AND POWER SUPPLY.
2. SWF MAY BE INSTALLED ONLY ON THE VERTICAL PART OF THE LIGHT POLE AND NOT THE EXTENDED ARM.
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8. IN THE EVENT OF A CONFLICT, THE MORE RESTRICTIVE PROVISION SHALL GOVERN.

LEGEND
 RESTRICTED SWF AREA

REVISION 2: 03/24/2019

UTAH DEPARTMENT OF TRANSPORTATION
 STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION
 SALT LAKE CITY, UTAH

SMALL WIRELESS FACILITY
 (SWF) MOUNTING LOCATION
 - ADVANCE WARNING
 SIGNAL (AWS) SYSTEMS

STD. DWG. NO.
 SWF - 9

RECOMMENDED FOR APPROVAL	DATE
CHAIRMAN STANDARDS COMMITTEE	XXX. XX. XXXX
APPROVED	DATE
DEPUTY DIRECTOR	XXX. XX. XXXX

STANDARD DRAWING TITLE

NO	DATE	APPR	REMARKS