

D04 - /POR TSG FY2014 (UPS)
140146 PID - 93304 Contract Proposal Available @ www.contracts.dot.state.oh.us/home
Dist 4 3/13/2014

UTILITIES NOTE

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE OHIO UTILITIES PROTECTION SERVICE (OUPS), THE OHIO & GAS PROCEDURES UNDERGROUND PROTECTION SERVICE (OGPUPS), THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 4 HEAD-QUARTERS AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION IN ALL AREAS.

OUPS 1-800-362-2764 (CONTACT LIMITED BASIS PARTICIPANTS DIRECTLY)
OGPUPS 1-800-925-0988
ODOT 330-786-3146 DAVE KONEVAL

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN ON THE PLANS, BUT CAN BE OBTAINED FROM THE OWNERS OF THE UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.

WORK INSPECTION

THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH 48 HOURS NOTICE OF ANY WORK TO BE PERFORMED AT THE INTERSECTION SITE SO THAT INSPECTION SERVICES CAN BE SUPPLIED.

WORK ASSIGNMENT PROCESS

PRIOR TO THE CONTRACTOR BEGINNING WORK AT A LOCATION THE CONTRACTOR AND THE ENGINEER WILL PERFORM A SITE INSPECTION TO ESTABLISH THE QUANTITIES FOR THE LOCATION AND DETERMINE IF THERE ARE UTILITY CONFLICTS WITH THE PROPOSED LOCATIONS.

IF IT IS DETERMINED THAT THE WORK CAN BE PERFORMED, THE ENGINEER SHALL RECORD THE DATE THAT THE CONTRACTOR ACKNOWLEDGES ACCEPTANCE OF THE LOCATION. THE CONTRACTOR WILL HAVE 60 CALENDAR DAYS FROM THIS DATE TO COMPLETE THE WORK AT THIS INTERSECTION. IF THE CONTRACTOR DOES NOT COMPLETE THE WORK AT THE INTERSECTION WITHIN 60 CALENDAR DAYS, DISINCENTIVES OF \$1000 PER DAY WILL BE ASSESSED UNTIL THE WORK IS COMPLETED TO THE SATISFACTION OF THE ENGINEER. TO FACILITATE COMPLETION OF THE WORK WITHIN THE REQUIRED TIME PERIOD, THE CONTRACTOR HAS THE OPTION TO ACCEPT A MAXIMUM OF 12 SITES IN ANY 30 DAY PERIOD AT ANY TIME DURING THE CONTRACT, UNLESS OTHERWISE AGREED TO BY THE CONTRACTOR. COMPLETION OF THE 10 DAY PERFORMANCE TEST DOES NOT ABSOLVE THE CONTRACTOR FROM THE DISINCENTIVES IF THE PROJECT WORK HAS NOT BEEN COMPLETED TO THE SATISFACTION OF THE ENGINEER.

COOPERATION BETWEEN CONTRACTORS

THE CONTRACTOR SHALL BE ADVISED THAT OTHER PROJECTS MAY BE ONGOING IN AREAS IMMEDIATELY ADJACENT TO AND WITHIN THE PROJECT LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL SCHEDULE HIS WORK SO AS TO CAUSE A MINIMUM OF DELAY OR CONFLICT WITH THE OTHER PROJECT(S). IN ACCORDANCE WITH 105.08, THE CONTRACTOR SHALL ARRANGE WITH THE OTHER CONTRACTOR A MUTUALLY ACCEPTABLE WORK SCHEDULE SUBJECT TO THE APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL RECIEVE DAILY APPROVAL FROM THE ENGINEER PRIOR TO COMMENCING ANY OPERATIONS. ANY CONFLICT BETWEEN CONTRACTORS INVOLVING WORK SCHEDULES, WORK AREA OR COOPERATION SHALL BE RESOLVED BY THE ENGINEER. COMPENSATION FOR THE ABOVE COOPERATION SHALL BE INCIDENTAL TO THE VARIOUS PAY ITEMS INCLUDED WITHIN THIS PROJECT.

ITEM 614 – LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE ODOT INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE ODOT, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST’S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS’ DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETERMINATE MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 50 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

614 MAINTAINING TRAFFIC MISC.: PER LOCATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC DURING THE INSTALLATION OF ALL INTERSECTION WORK ITEMS. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR. THE FOLLOWING REQUIREMENTS APPLY:

1. LANE CLOSURES ON ANY STREET, RAMP OR BUSINESS ENTRANCE IN THE PROJECT WILL NOT OCCUR DURING THE PEAK VOLUME HOURS OF 6 AM TO 9 AM, AND 3 PM TO 7 PM.
2. THE USE OF A LAW ENFORCEMENT OFFICER WITH PATROL CAR IS REQUIRED IF THE CONTRACTOR TURNS THE INTERSECTION SIGNALS OFF OR PUTS THE INTERSECTION IN FLASHING OPERATION.

THE INTENT IS TO PERFORM THE REQUIRED WORK WITH THE LEAST INCONVENIENCE TO, AND THE MAXIMUM SAFETY TO, THE CONTRACTOR AND THE TRAVELLING PUBLIC. ANY VARIANCE FROM THESE MAINTENANCE OF TRAFFIC NOTES MUST BE APPROVED IN ADVANCE IN WRITING BY THE ENGINEER. EXCEPT AS MODIFIED BELOW, THE REQUIREMENTS FOR MAINTENANCE OF TRAFFIC AS INDICATED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (OMUTCD) CURRENT EDITION, LATEST REVISION, AND PERTINENT ITEMS AND SPECIFICATIONS AND PROPOSALS SHALL APPLY.

THE CONTRACTOR SHALL NOT CLOSE ANY LANES OR OTHERWISE IMPEDE THE FLOW OF TRAFFIC:

A) DURING NATIONAL HOLIDAYS, MOTHERS DAY AND EASTER

B) DURING HOLIDAY WEEKENDS, A “HOLIDAY WEEKEND” FOR TRAFFIC CONTROL PURPOSES IS TO BEGIN AT NOON ON THE LAST NORMAL WEEKDAY PRECEEDING THE HOLIDAY WEEKEND AND IS TO END AT NOON ON THE FIRST NORMAL WEEKDAY FOLLOWING THE WEEKEND. A DAY BETWEEN THE HOLIDAY AND SATURDAY OR SUNDAY IS CONSIDERED PART OF THE WEEKEND (I.E., THE FRIDAY AFTER THANKSGIVING).

C) THE CONTRACTOR SHALL DO ABSOLUTELY NO WORK OR CLOSE ANY LANES OF TRAFFIC, IN ANY DIRECTION DURING THE PEAK HOURS DEFINED BELOW ON THE FOLLOWING ROUTES:

MAHONING COUNTY - CANFIELD FAIR
US-224 FROM PALMYRA RD TO I-680
SR-46 FROM WESTERN RESERVE RD TO MAHONING AVE
SR-446

PORTAGE COUNTY - PORTAGE CO FAIR
US-224 FROM SR-43 TO SR-44
SR-44 FROM US-224 TO LYNN RD

PAYMENT FOR ITEM 614 “MAINTAINING TRAFFIC MISC.: PER LOCATION” SHALL INCLUDE ALL THE ITEMS REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THESE REQUIREMENTS, THE PAYMENT BID ITEM SHALL BE ON AN EACH BASIS FOR EACH OF THE SIGNALIZED INTERSECTIONS.

624 MOBILIZATION, AS PER PLAN

BECAUSE THE TOTAL NUMBER OF LOCATIONS TO BE UPGRADED MAY BE REVISED BY THE SITE INSPECTION AND MAY BE SPREAD ACROSS THE DISTRICT’S COUNTIES, PAYMENT FOR ITEM 624 “MOBILIZATION, AS PER PLAN” WILL BE ON AN EACH BASIS FOR EACH SIGNALIZED INTERSECTION WHERE THE CONTRACTOR HAS SATISFACTORILY COMPLETED THE CONTRACT WORK.

633 UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 W, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 633 AND 733, POLE ATTACHMENT HARDWARE WILL BE INCLUDED FOR POLE MOUNTED CABINETS, AND A CABINET RISER (8 INCH MINIMUM) AND ANCHOR BOLTS WILL BE PROVIDED FOR BASE MOUNTED CABINETS.

THE CONTRACTOR SHALL FURNISH, INSTALL AND TEST UNINTERRUPTIBLE POWER SUPPLY (UPS) STATUS INDICATOR LAMPS THAT ALLOW MAINTENANCE PERSONNEL AND LAW ENFORCEMENT TO QUICKLY ASSESS WHETHER A TRAFFIC SIGNAL CABINET IS BEING POWERED BY A UPS. A 1-INCH WATERPROOF NEMA 4X OR IP66 LAMP WITH A DOMED RED LENS SHALL BE USED TO INDICATE THE CABINET IS OPERATING UNDER UPS BACKUP POWER (THE “BACKUP” OPERATING CONDITION). THIS LAMP SHALL BE WIRED USING MINIMUM 20GA STRANDED, INSULATED HOOKUP WIRE TO THE STATUS RELAY OUTPUTS OF THE UPS. THE WIRES SHALL BE TERMINATED BY LUGS AT THE DISPLAY END AND PERMANENTLY LABELED “BACKUP POWER STATUS DISPLAY,” WITH WIRE POLARITY INDICATED. THIS ITEM INCLUDES PROGRAMMING THE UPS STATUS RELAY OUTPUTS TO PRODUCE THE LAMP STATUS DISPLAYS. THE STATUS DISPLAY SHALL BE SOLID 100% DUTY CYCLE (NOT FLASHING). THE LAMP SHALL BE PLACED IN THE UPS CABINET WALL (NOT THE ROOF) IN SUCH A MANNER AS TO BE SEALED FROM WATER INTRUSION AND VISIBLE FROM A VEHICLE AT THE STOP LINE IN THE CLOSEST LANE OF AT LEAST ONE APPROACH TO THE SIGNALIZED INTERSECTION. THE OPERATING VOLTAGE OF THE LED LAMP SHALL BE 120V AC.

GUARANTEE

THE CONTRACTOR SHALL GUARANTEE THAT THE TRAFFIC CONTROL EQUIPMENT INSTALLED AS PART OF THIS CONTRACT SHALL OPERATE SATISFACTORILY FOR A PERIOD OF 90 DAYS FOLLOWING THE SUCCESSFUL COMPLETION OF THE 10 DAY PERFORMANCE TEST.

THE GUARANTEE SHALL COVER ALL TRAFFIC SIGNAL EQUIPMENT, INSTALLED BY THE CONTRACTOR AT THE INTERSECTION AS PART OF THIS CONTRACT. CUSTOMARY AND APPLICABLE ODOT SPECIFIED MANUFACTURER’S GUARANTEES FOR THE INSTALLED ITEMS SHALL BE TURNED OVER TO THE STATE FOLLOWING ACCEPTANCE OF THE EQUIPMENT. THE COST OF GUARANTEEING THE TRAFFIC CONTROL SYSTEM WILL BE INCIDENTAL TO AND INCLUDED IN THE CONTRACT UNIT PRICE OF THE VARIOUS ITEMS MAKING UP THE SYSTEM.

633 - SIGNAL, MISC.: UNINTERRUPTIBLE POWER SUPPLY STATUS INDICATOR LAMP, AS PER PLAN
THIS ITEM SHALL INVOLVE THE RETROFIT INSTALLATION OF A NEW STATUS INDICATOR LIGHT (AS DETAILED IN THE "UNINTERRUPTIBLE POWER SUPPLY (UPS) 1000W A.P.P." NOTE) TO EXISTING UPS CABINET LOCATIONS.

625 - PULL BOX REMOVED AND REPLACED, AS PER PLAN
THIS ITEM SHALL INVOLVE THE REMOVAL OF AN EXISTING CORRUGATED METAL PULL BOX AND REPLACEMENT WITH A NEW CONCRETE PULL BOX, 18", 725.08, IN THE SAME LOCATION. CARE SHALL BE EXERCISED SO AS TO NOT DAMAGE EXISTING CABLES AND/OR CONDUIT IN PULL BOX.

625 - PULL BOX, 18", 725.08, AS PER PLAN
THIS ITEM OF WORK SHALL CONSIST OF INSTALLING A NEW CONCRETE PULL BOX OVER AN EXISTING CONDUIT. THE EXISTING CONDUIT SHALL BE LOCATED AND CUT (AS NEEDED), PULL BOX SET AND CONDUIT GROUTED INTO NEW PULL BOX AS PER 625. CARE SHOULD BE EXERCIED TO NOT DAMAGE ANY EXISTING CABLES IN CONDUIT. EXISTING CABLE SPLICES MAY BE CUT AND CABLE PULLED BACK TO AFFECT THE WORK. CABLE WILL THEN BE REINSTALLED AND RESPLICED. CABLE SHOULD NOT BE CUT MID-WAY AND SPLICED AT THE NEW PULL BOX LOCATION. SPLICE KITS AND THEIR INSTALLATION SHALL BE INCLUDED AND PAID FOR UNDER THIS ITEM.

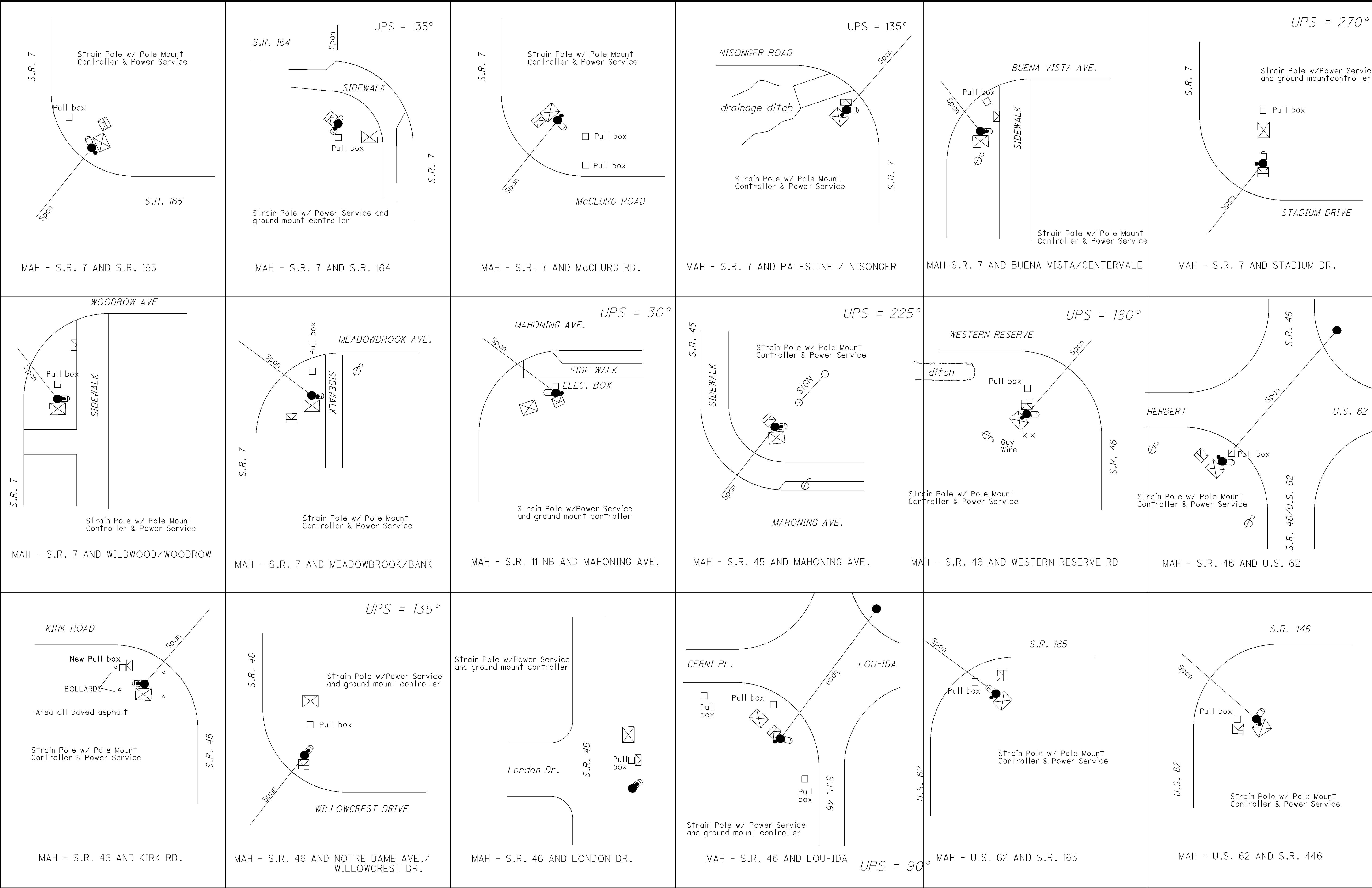
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2		4		5								
											EROSION CONTROL	
						1000	832	30000	1000	EACH	EROSION CONTROL	
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		230		140		370	625	25300	370	FEET	CONDUIT, 1-½", 725.04	
		190		140		330	625	29000	330	FEET	TRENCH	
		40				40	625	29500	40	FEET	TRENCH IN PAVED AREA, TYPE A	
		2				2	625	30701	2	EACH	PULL BOX, 18", 725.08, AS PER PLAN	3
		2				2	625	31507	2	FEET	PULL BOX REMOVED AND REPLACED, AS PER PLAN	3
		23		14		37	625	32000	37	EACH	GROUND ROD	
		230		140		370	625	36000	370	FEET	PLASTIC CAUTION TAPE	3
		23		14		37	633	67100	37	EACH	CABINET FOUNDATION	
		27		16		43	633	67200	43	EACH	CONTROLLER WORK PAD	
		35		20		55	633	75001	55	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATTS, AS PER PLAN	2
		29		7		36	633	99000	36	EACH	CONTROLLER ITEM, MISC: Uninterruptible Power Supply, Status Indicator Lamp	3
											MAINTENANCE OF TRAFFIC	
50						50	614	11110	50	HOURL	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	2
						55	614	18000	55	EACH	MAINTAINING TRAFFIC, MISC: PER LOCATION	2
						6	619	16010	6	MONTH	FIELD OFFICE, TYPE B	
						LUMP	623	10000	LUMP		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
						55	624	15001	55	EACH	MOBILIZATION, AS PER PLAN	2

QUANTITIES CARRIED TO GENERAL SUMMARY:

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LEGEND

HANDHOLE LOCATION



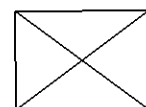
POWER SERVICE LOCATION



PEDESTRIAN BUTTON LOCATION



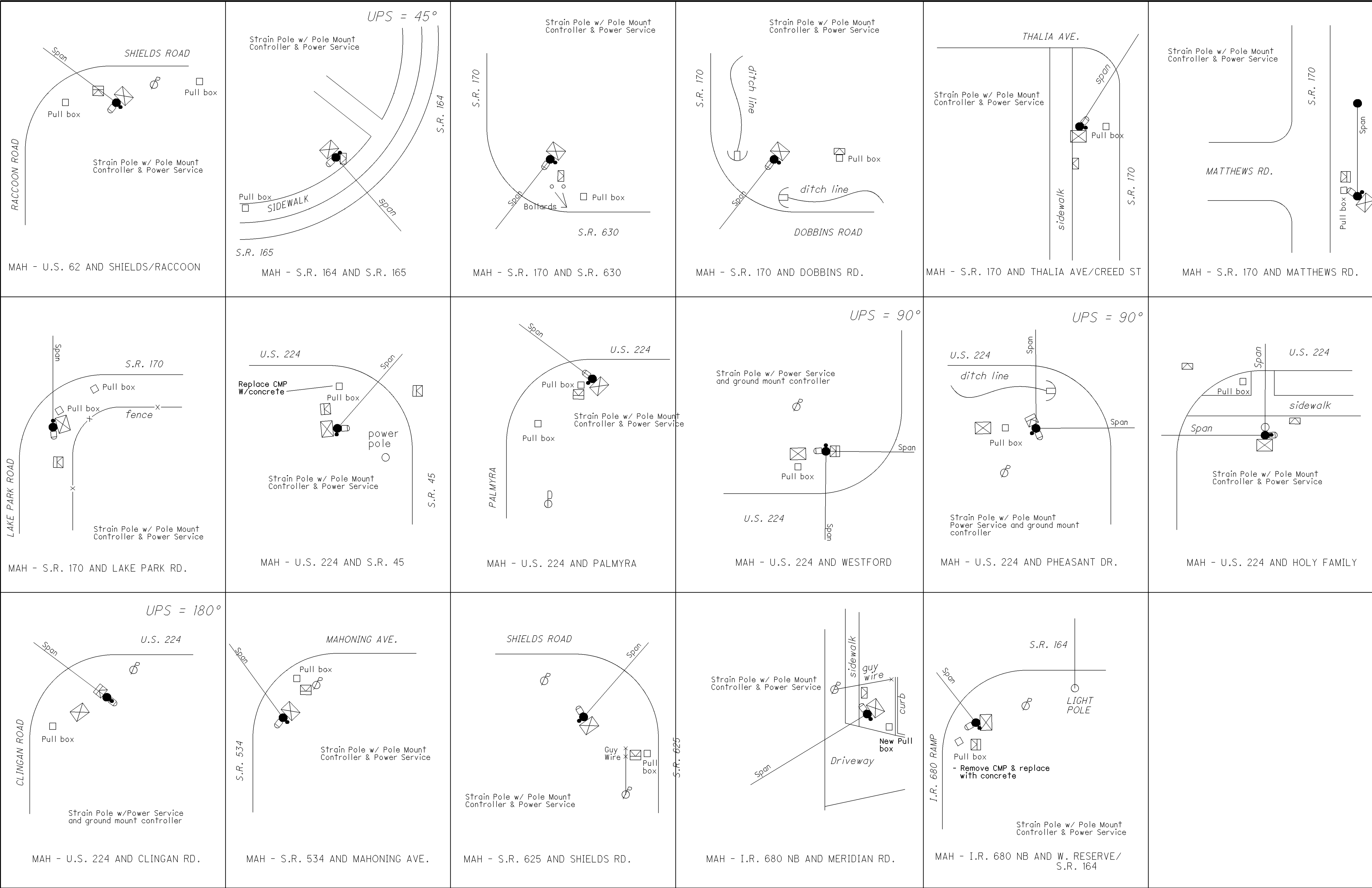
CONTROL CABINET



UPS



CALCULATED	CHECKED
MAHONING-UPS DETAILS	
MAH/POR-TSG-FY2014 (UPS)	
6	9



LEGEND

HANDHOLE LOCATION



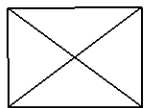
POWER SERVICE LOCATION



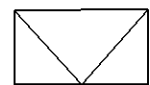
PEDESTRIAN BUTTON LOCATION



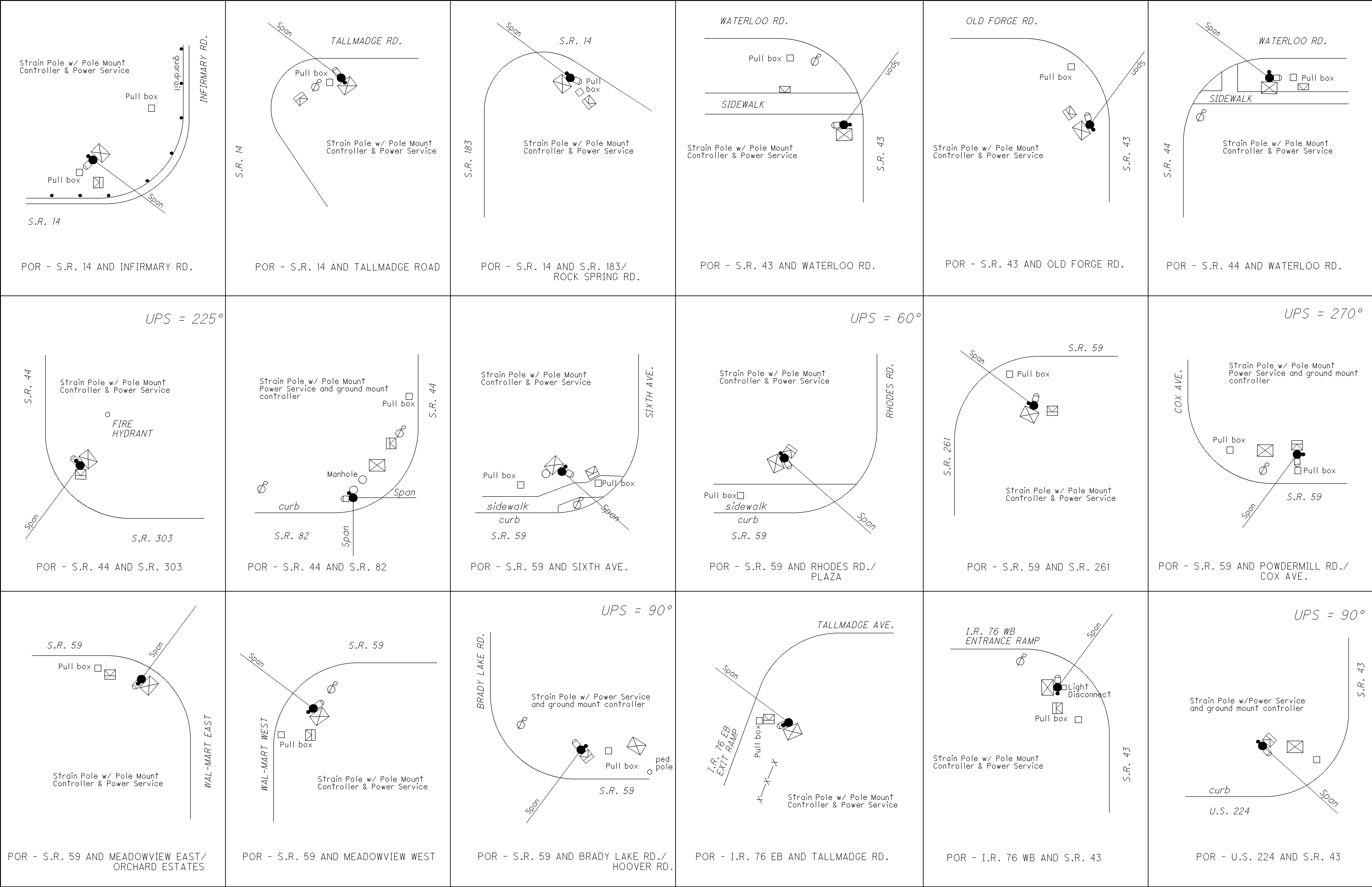
CONTROL CABINET



UPS



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MAHONING-UPS DETAILS	
MAH/POR-TSG-FY2014 (UPS)	
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LEGEND

HANDHOLE LOCATION



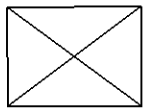
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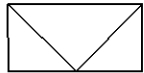
PEDESTRIAN BUTTON LOCATION



CONTROL CABINET



UPS





LEGEND

HANDHOLE LOCATION



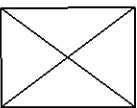
POWER SERVICE LOCATION



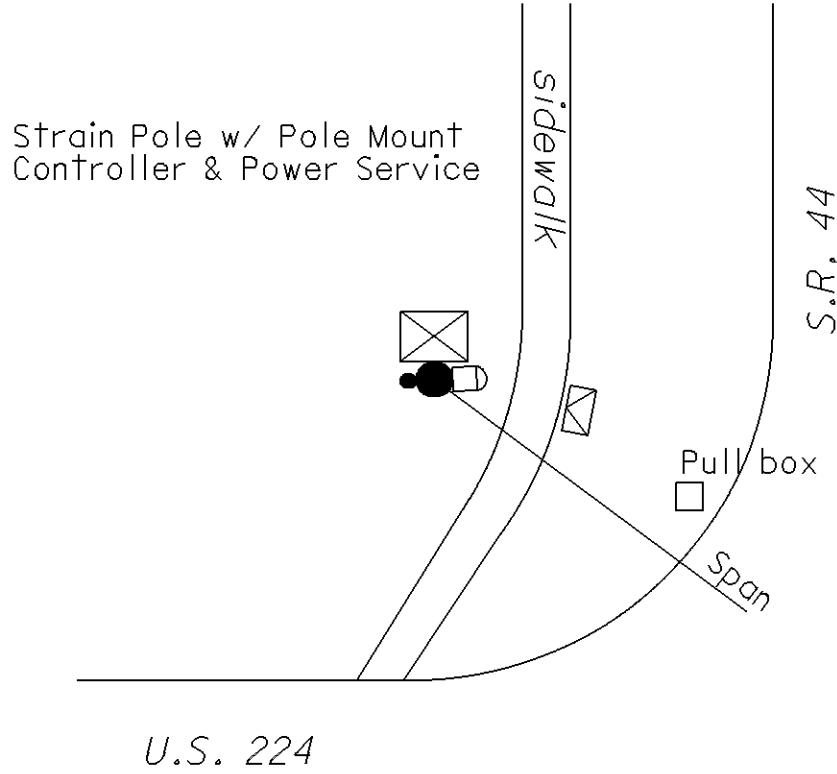
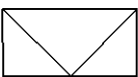
PEDESTRIAN BUTTON LOCATION



CONTROL CABINET



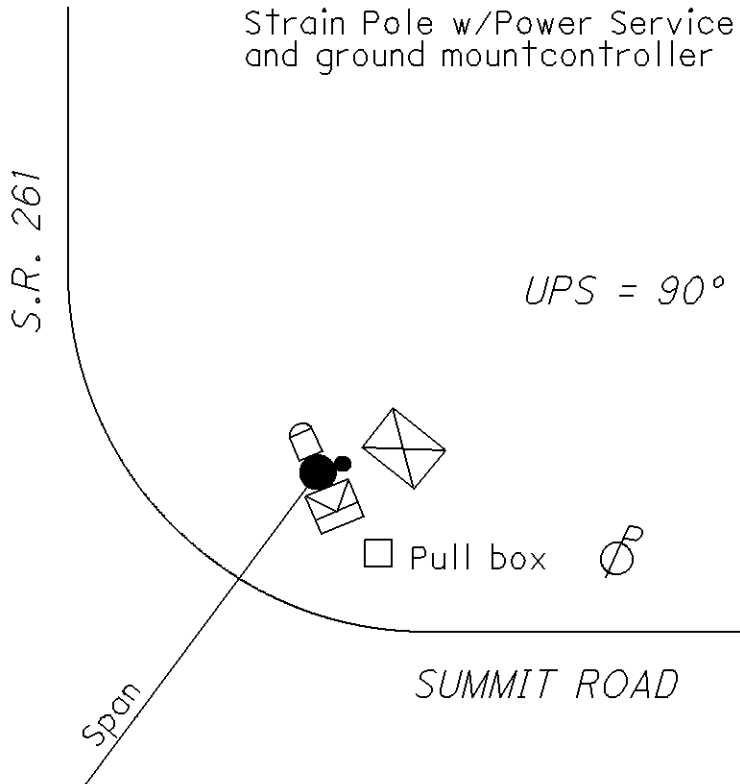
UPS



U.S. 224

S.R. 44

POR - U.S. 224 AND S.R. 44



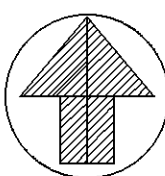
S.R. 261

SUMMIT ROAD

POR - S.R. 261 AND SUMMIT ROAD

CALCULATED

CHECKED



PORTAGE-UPS DETAILS

MAH/POR-TSG-FY2014 (UPS)

