

CONSTRUCTION PLANS FOR

SCHOOL FLASHING BEACON DESIGN PROJECT

PHASE I

FOR

CITY OF ALBUQUERQUE - PUBLIC WORKS DEPARTMENT

SEE SHEET 2 OF 41

VICINITY MAP
NOT TO SCALE

GENERAL NOTES

NOTICE TO CONTRACTORS

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION, AND NMSHTD STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1984 EDITION. WHERE CONFLICTS EXIST, THE CITY OF ALBUQUERQUE STANDARDS SHALL PREVAIL.
 - TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
 - ALL WORK ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE CURRENT NATIONAL ELECTRICAL CODE, STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS FOR ELECTRICAL WIRING AND APPARATUS.
- SEE SHEET 3 OF 41 FOR CONTINUATION OF GENERAL NOTES.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ☐ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☒ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☐ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- ☐ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☐ IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO THE ACCEPTANCE OF CURB AND GUTTER.
- ☐ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- ☒ THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

RECORD DRAWING

Plans Revised In Accordance with information
Provided by BOONE ENGR. AND

CONSTR.
To Reflect Actual Construction

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 4233.900194

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
Russell B. Smith
DATE 7-7-94

MARK-A-FLAK
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
Mark A. Flak
3-14-94

REV	SHEETS	CITY ENGINEER	DATE	USER	DEPT.	DATE	USER	DEPT.	DATE
APPROVAL OF REVISIONS									

MARK-A-FLAK
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
Mark A. Flak
5-26-92

jhk & associates
TRANSPORTATION AND ELECTRICAL ENGINEERING

PROJECT NUMBER

4233-90

APPROVED FOR
CONSTRUCTION

Shelley A. Hays
6/16/94 C.E.

SHEET 1 OF 41

SHEET NO.

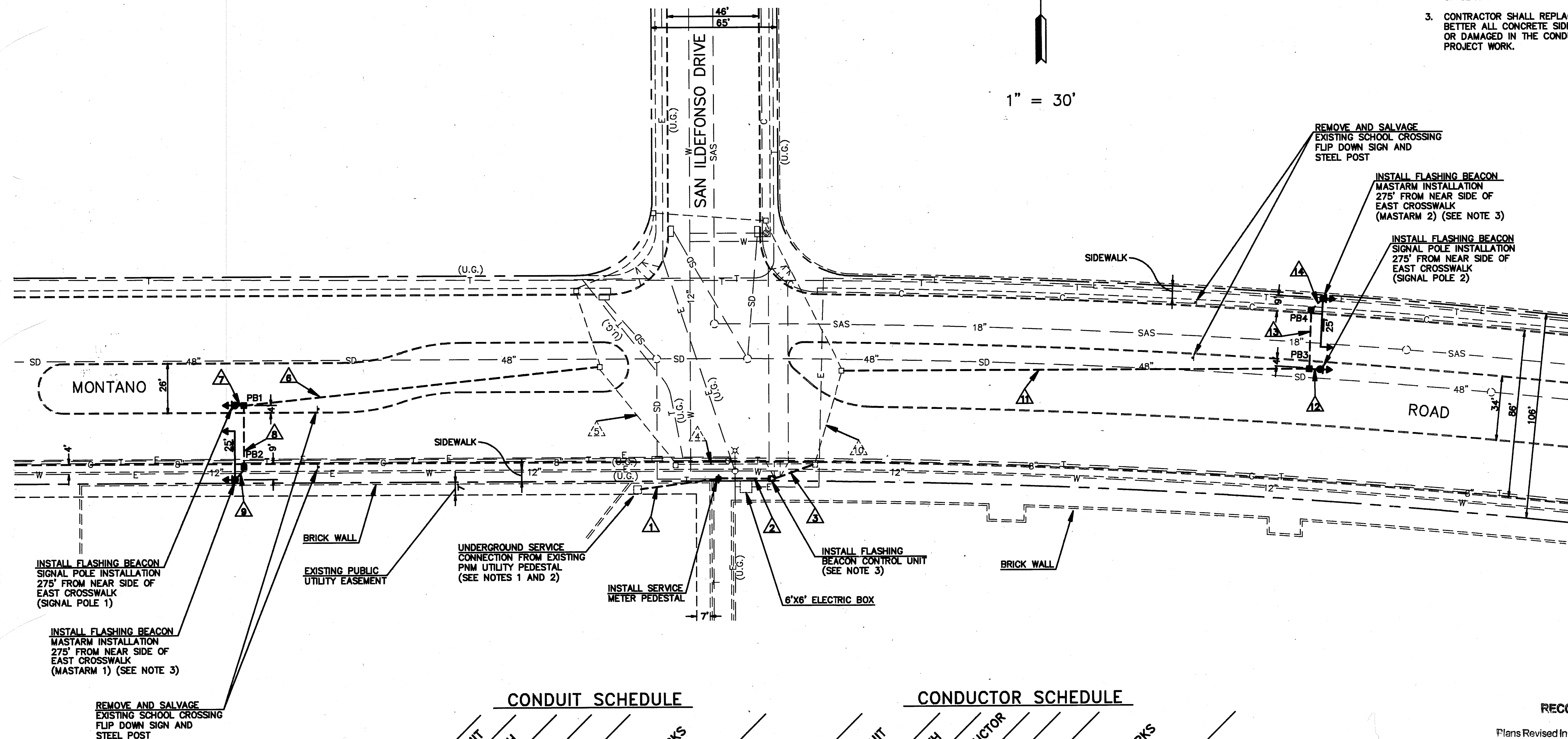
DESCRIPTION

1 OF 41	TITLE PAGE
2 OF 41	VICINITY MAP
3 OF 41	GENERAL NOTES/LEGEND
4 OF 41	ESTIMATED QUANTITIES
5 OF 41	MONTANO ROAD/SAN ILDEFONSO DRIVE FLASHING BEACON PLAN
6 OF 41	RIO GRANDE BOULEVARD/INDIAN SCHOOL ROAD FLASHING BEACON PLAN
7 OF 41	ATRISCO DRIVE/MAE AVENUE FLASHING BEACON PLAN
8 OF 41	6TH STREET/COPPER AVENUE FLASHING BEACON PLAN
9 OF 41	8TH STREET/ATLANTIC AVENUE FLASHING BEACON PLAN
10 OF 41	BROADWAY BOULEVARD/PACIFIC AVENUE FLASHING BEACON PLAN
11 OF 41	UNIVERSITY BOULEVARD/LEAD AVENUE FLASHING BEACON PLAN
12 OF 41	CARLISLE BOULEVARD/PERSHING AVENUE FLASHING BEACON PLAN
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14 OF 41	GIRARD BOULEVARD/HAINES AVENUE FLASHING BEACON PLAN
15 OF 41	LOMAS BOULEVARD/MORNINGSIDE DRIVE FLASHING BEACON PLAN
16 OF 41	WASHINGTON STREET/ROMA AVENUE FLASHING BEACON PLAN
17 OF 41	COPPER AVENUE/SAN PABLO STREET FLASHING BEACON PLAN
18 OF 41	CONSTITUTION AVENUE/FLORIDA STREET FLASHING BEACON PLAN
19 OF 41	SAN PEDRO BOULEVARD/CLAREMONT AVENUE FLASHING BEACON PLAN
20 OF 41	CANDELARIA ROAD/SAN PEDRO BOULEVARD FLASHING BEACON PLAN
21 OF 41	MONTGOMERY BOULEVARD/SAN PEDRO BOULEVARD FLASHING BEACON PLAN

SHEET NO.

DESCRIPTION

22 OF 41	BURLISON DRIVE/ESTHER AVENUE FLASHING BEACON PLAN
23 OF 41	COPPER AVENUE/GENERAL SOM



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↑
1" = 30'

NOTES

- PNM AND CONTRACTOR SHALL COORDINATE TO CONTACT PROPERTY OWNER AT 5912 FLOR DEL RIO COURT AT LEAST 7 DAYS IN ADVANCE OF SERVICE CONNECTION WORK TO ARRANGE FOR ACCESS TO PRIVATE PROPERTY.
- ALL PRIVATE PROPERTY SHALL BE REPLACED IN KIND OR BETTER FOLLOWING THE COMPLETION OF SERVICE CONNECTION WORK.
- CONTRACTOR SHALL REPLACE IN KIND OR BETTER ALL CONCRETE SIDEWALK REMOVED OR DAMAGED IN THE CONDUCT OF ANY PROJECT WORK.

INSTALL FLASHING BEACON
SIGNAL POLE INSTALLATION
275' FROM NEAR SIDE OF
EAST CROSSWALK
(SIGNAL POLE 1)

INSTALL FLASHING BEACON
MASTARM INSTALLATION
275' FROM NEAR SIDE OF
EAST CROSSWALK
(MASTARM 1) (SEE NOTE 3)

REMOVE AND SALVAGE
EXISTING SCHOOL CROSSING
FLIP DOWN SIGN AND
STEEL POST

BRICK WALL
EXISTING PUBLIC
UTILITY EASEMENT

UNDERGROUND SERVICE
CONNECTION FROM EXISTING
PNM UTILITY PEDESTAL
(SEE NOTES 1 AND 2)

INSTALL SERVICE
METER PEDESTAL

INSTALL FLASHING
BEACON CONTROL UNIT
(SEE NOTE 3)

6'x6' ELECTRIC BOX

REMOVE AND SALVAGE
EXISTING SCHOOL CROSSING
FLIP DOWN SIGN AND
STEEL POST

INSTALL FLASHING BEACON
MASTARM INSTALLATION
275' FROM NEAR SIDE OF
EAST CROSSWALK
(MASTARM 2) (SEE NOTE 3)

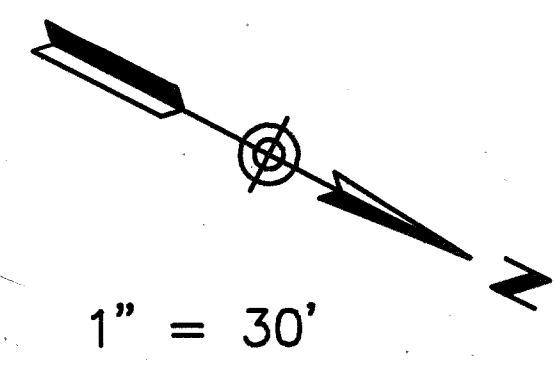
INSTALL FLASHING BEACON
SIGNAL POLE INSTALLATION
275' FROM NEAR SIDE OF
EAST CROSSWALK
(SIGNAL POLE 2)

CONDUIT SCHEDULE

CONDUIT	LENGTH	SIZE	TYPE	REMARKS
1	43'	2"	REC	FOR SERVICE
2	27'	2"	REC	FOR SERVICE
3	43'	2"	REC	
4	73'	2"	REC	EXISTING
5	85'	2"	REC	EXISTING
6	192'	2"	REC	
7	10'	2"	REC	
8	33'	2"	REC	
9	15'	2"	REC	
10	50'	2"	REC	EXISTING
11	249'	2"	REC	
12	5'	2"	REC	
13	30'	2"	REC	
14	10'	2"	REC	

CONDUCTOR SCHEDULE

CONDUIT	LENGTH	CONDUCTOR	AWG	TYPE	REMARKS
1	54'	3 1C	6	THHN	FOR SERVICE
2	36'	2 1C	6	THHN	FOR SERVICE
3	49'	2 5C	14	MCC	
4	77'	1 5C	14	MCC	EXISTING CONDUIT
5	89'	1 5C	14	MCC	EXISTING CONDUIT
6	196'	1 5C	14	MCC	
7	16'	1 5C	14	MCC	
8	37'	1 5C	14	MCC	
9	21'	1 5C	14	MCC	
10	54'	1 5C	14	MCC	EXISTING CONDUIT
11	253'	1 5C	14	MCC	
12	11'	1 5C	14	MCC	
13	34'	1 5C	14	MCC	
14	18'	1 5C	14		



INSTALL FLASHING BEACON MASTARM INSTALLATION 310' FROM NEAR SIDE OF NORTH CROSSWALK (MASTARM 2) (SEE NOTE 5)

REMOVE AND SALVAGE EXISTING SCHOOL CROSSING FLIP DOWN SIGN AND STEEL POST

REMOVE AND SALVAGE EXISTING SCHOOL CROSSING FLIP DOWN SIGN AND STEEL POST

INSTALL FLASHING BEACON MASTARM INSTALLATION 275' FROM NEAR SIDE OF NORTH CROSSWALK (MASTARM 3)

REMOVE EXISTING TRAFFIC SIGNAL CONTROLLER AND RELOCATE 5' NORTH OF EXISTING CONTROLLER LOCATION. INSTALL FLASHING BEACON CONTROL UNIT ON RELOCATED TRAFFIC SIGNAL CONTROLLER. (SEE NOTES 1 AND 3)

INSTALL PULL BOX AT EXISTING TRAFFIC SIGNAL CONTROLLER LOCATION. MAINTAIN EXISTING CONDUIT WEST OF NEW PULL BOX TO MASTARM ON NE CORNER

INSTALL SERVICE METER PEDESTAL

REMOVE EXISTING RISER AND INSTALL NEW RISER ON SE QUADRANT OF EXISTING UTILITY POLE FOR SERVICE CONNECTION (SEE NOTE 2)

INSTALL FLASHING BEACON MASTARM INSTALLATION 275' FROM CROSSWALK (MASTARM 1)

REMOVE EXISTING UTILITY POLE AND RISER

CONDUIT SCHEDULE

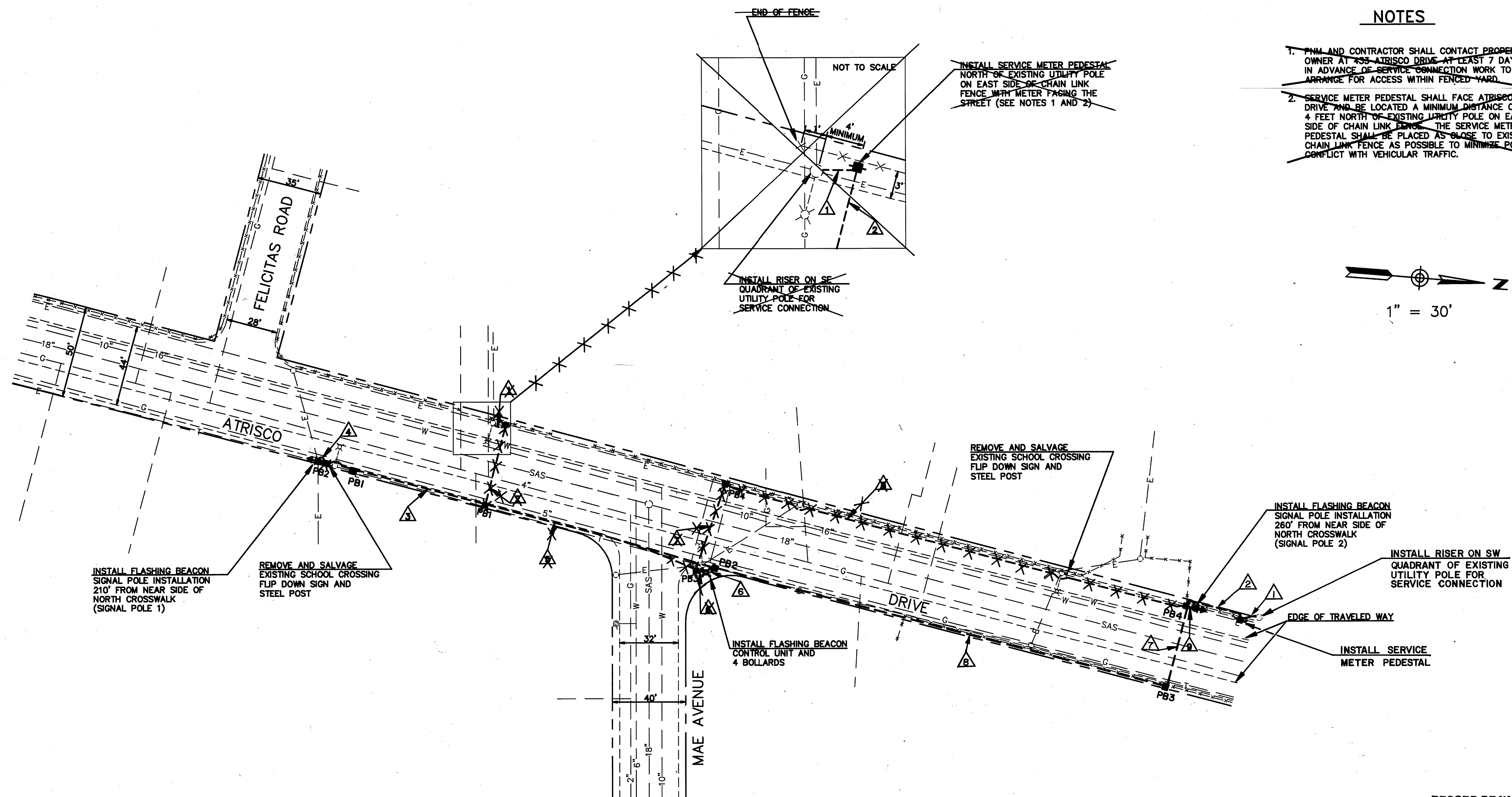
CONDUIT	LENGTH	SIZE	TYPE	REMARKS
1	16'	2"	REC	FOR SERVICE
2	10'	2"	REC	FOR SERVICE
3	130'	2"	REC	
4	10'	3"	REC	
5	141'	2"	REC	
6	13'	2"	REC	
7	81'	2-3"	REC	ONE RESERVED FOR FUTURE USE
8	325'	2"	REC	
9	90'	2"	REC	
10	15'	2"	REC	
11	65'	2-3"	REC	
12	210'	2"	REC	
13	13'	2"	REC	
14	112'	2-3"	REC	

CONDUCTOR SCHEDULE

CONDUIT	LENGTH	CONDUCTOR	AWG	TYPE	REMARKS
1	22'	3 1C	2	THHN	FOR SERVICE
2	16'	2 1C	2	THHN	FOR SERVICE
3	134'	2 1C	2	THHN	FOR SERVICE
4		1 5C	14	MCC	
5	16'	2 1C	2	THHN	FOR SERVICE
6		3 5C	14	MCC	
7		2 20C	14	MCC	RELOCATED CONTROLLER
8	146'	1 5C	14	MCC	
9	19'	1 5C	14	MCC	
10	85'	2 5C	14	MCC	
11	329'	1 5C	14	MCC	
12	94'	1 5C	14	MCC	
13	21'	1 5C	14	MCC	
14	69'	1 5C	14	MCC	
15	214'	1 5C	14	MCC	
16	19'	1 5C	14	MCC	
MASTARM 1	50'	1 5C	14	MCC	FLASHING BEACONS
MASTARM 2	50'	1 5C	14	MCC	FLASHING BEACONS
MASTARM 3	50'	1 5C	14	MCC	FLASHING BEACONS
17	117'	2 5C	14	MCC	

NOTES

- CONTRACTOR SHALL CONTACT MR. EDWARD TOLEDO (CITY TRAFFIC ENGINEERING DIVISION) AT 857-8000 AT LEAST THREE (3) DAYS PRIOR TO CONSTRUCTION TO DETERMINE THE PLACEMENT OF THE FLASHING BEACON CONTROL CABINET ON THE EXISTING TRAFFIC SIGNAL CONTROLLER AND TO VERIFY THE WIRING REQUIREMENTS FOR THE FLASHING BEACON CONTROLLER.
- THE NEW SERVICE CONNECTION SHALL PROVIDE POWER TO BOTH THE EXISTING TRAFFIC SIGNAL CONTROLLER AND THE NEW FLASHING BEACON CONTROLLER. NEW SERVICE CONNECTION SHALL BE INSTALLED PRIOR TO DISCONNECTING EXISTING SERVICE CONNECTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC CONTROL, AS APPROVED BY THE CITY PROJECT MANAGER, DURING THE RELOCATION OF THE EXISTING TRAFFIC SIGNAL CONTROLLER.
- CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS, AS APPROVED BY THE CITY PROJECT MANAGER, DURING THE INSTALLATION OF CONDUIT IN SIDEWALK AREAS.
- CONTRACTOR SHALL REPLACE IN KIND



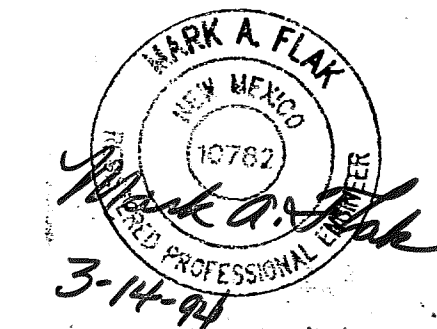
- ### NOTES
1. PHM AND CONTRACTOR SHALL CONTACT PROPERTY OWNER AT 433 ATRISCO DRIVE AT LEAST 7 DAYS IN ADVANCE OF SERVICE CONNECTION WORK TO ARRANGE FOR ACCESS WITHIN FENCED YARD.
 2. SERVICE METER PEDESTAL SHALL FACE ATRISCO DRIVE AND BE LOCATED A MINIMUM DISTANCE OF 4 FEET NORTH OF EXISTING UTILITY POLE ON EAST SIDE OF CHAIN LINK FENCE. THE SERVICE METER PEDESTAL SHALL BE PLACED AS CLOSE TO EXISTING CHAIN LINK FENCE AS POSSIBLE TO MINIMIZE POTENTIAL CONFLICT WITH VEHICULAR TRAFFIC.

AS-BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	BOONE	DATE	9/92	NO.	BY	DATE		NO.	BY	DATE					
STANDARD		DATE													
DESIGNED BY		DATE													
DRAWN BY		DATE													
CHECKED BY		DATE													
RECORDED BY		DATE													
NO.															

RECORD DRAWING

Plans Revised In Accordance with information
Provided by: BOONE ENGR. AND

CONSTR.
To Reflect Actual Construction



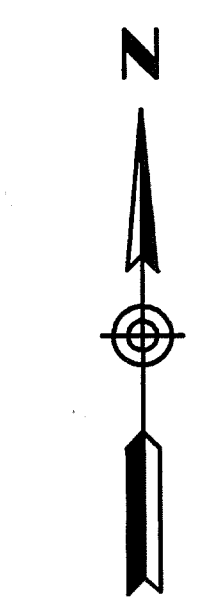
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 42 33 .9 00 79 9

CONDUIT SCHEDULE

CONDUIT	LENGTH	SIZE	TYPE	REMARKS
16'	2"	REC		FOR SERVICE
45'	2"	REC		FOR SERVICE
213'	2"	REC		
11'	2"	REC		
120'	2"	REC		
5'	2"	REC		
50'	2"	REC		
278'	2"	REC		
10'	2"	REC		

CONDUCTOR SCHEDULE

CONDUIT	LENGTH	CONDUCTOR	AWG	TYPE	REMARKS
20'	1C	6	THHN		FOR SERVICE
51'	2 1C	6	THHN		FOR SERVICE
217'	1 5C	14	MCC		
17'	1 5C	14	MCC		
124'	2 1C	6	THHN		FOR SERVICE
	1 5C	14	MCC		
11'	2 1C	6	THHN		FOR SERVICE
	2 5C	14	MCC		
54'	1 5C & 2 1C	14 & 6	MCC		
282'	1 5C & 2 1C	14 &			



1" = 30'

CONDUIT SCHEDULE

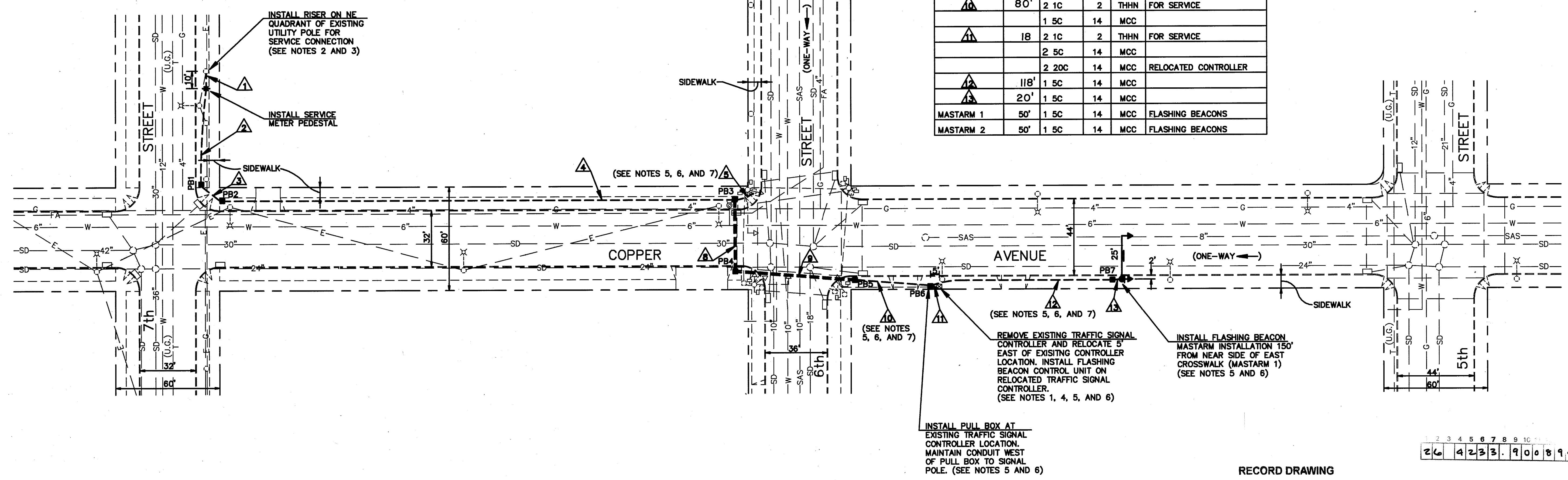
CONDUIT	LENGTH	SIZE	TYPE	REMARKS
1	16'	2"	REC	FOR SERVICE
2	55'	2"	REC	FOR SERVICE
3	28'	2"	REC	FOR SERVICE
4	300'	2"	REC	FOR SERVICE
5	15'	2"	REC	
6	237'	3"	REC	EXISTING
7	10'	2"	REC	
8	40'	2-3"	REC	ONE RESERVED FOR FUTURE USE
9	70'	2-3"	REC	ONE RESERVED FOR FUTURE USE
10	76'	2"	REC	
11	12'	3"	REC	
12	114'	2"	REC	
13	14'	2"	REC	

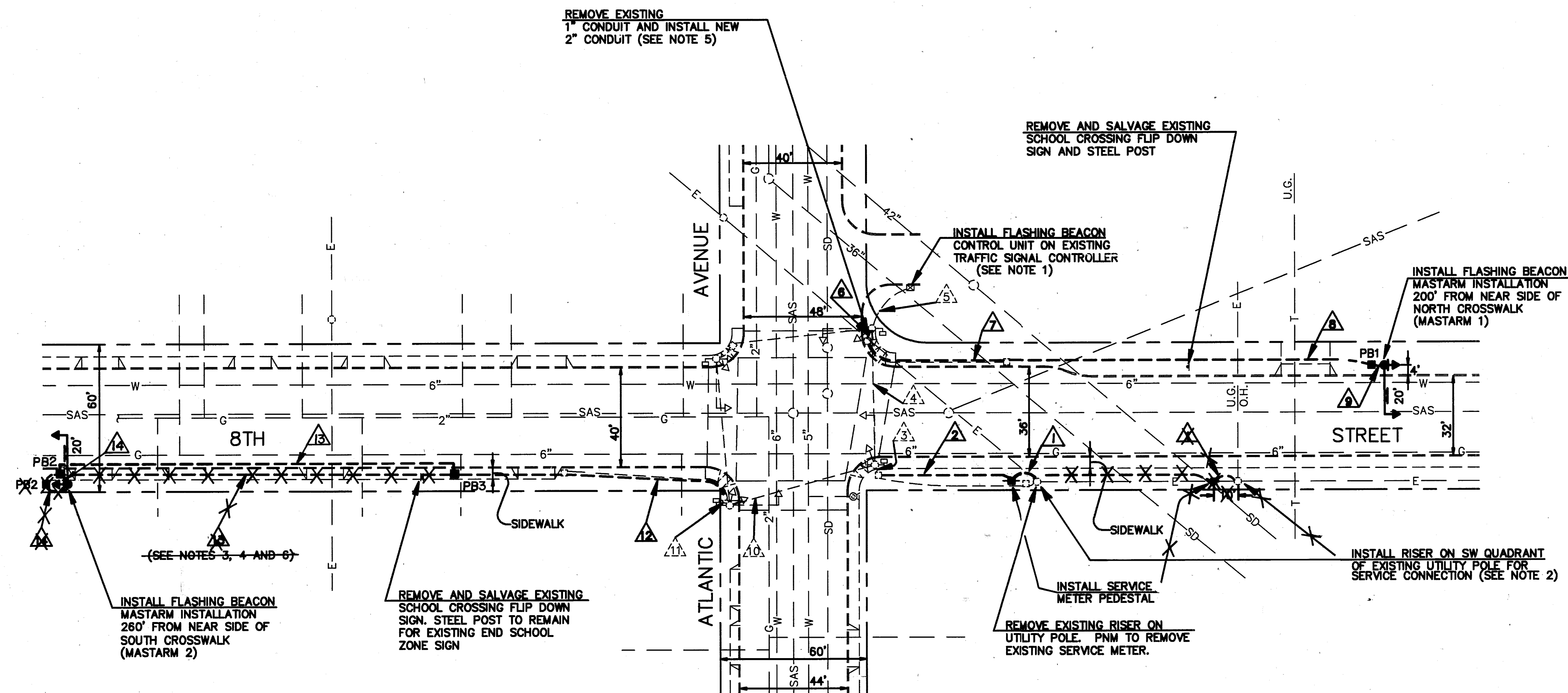
CONDUCTOR SCHEDULE

CONDUIT	LENGTH	CONDUCTOR	AWG	TYPE	REMARKS
1	20'	3 1C	2	THHN	FOR SERVICE
2	61'	2 1C	2	THHN	FOR SERVICE
3	32'	2 1C	2	THHN	FOR SERVICE
4	304'	2 1C	2	THHN	FOR SERVICE
5	19'	1 5C	14	MCC	
6	241'	1 5C	14	MCC	EXISTING CONDUIT
7	16'	1 5C	14	MCC	
8	44'	2 1C	2	THHN	FOR SERVICE
9		1 5C	14	MCC	
10	74'	2 1C	2	THHN	FOR SERVICE
11		1 5C	14	MCC	
12	80'	2 1C	2	THHN	FOR SERVICE
13		1 5C	14	MCC	
14	18'	2 1C	2	THHN	FOR SERVICE
15		2 5C	14	MCC	
16		2 20C	14	MCC	RELOCATED CONTROLLER
17	118'	1 5C	14	MCC	
18	20'	1 5C	14	MCC	
MASTARM 1	50'	1 5C	14	MCC	FLASHING BEACONS
MASTARM 2	50'	1 5C	14	MCC	FLASHING BEACONS

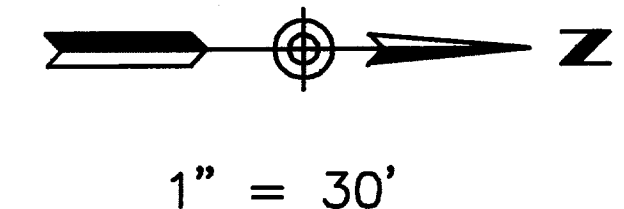
NOTES

- CONTRACTOR SHALL CONTACT MR. EDWARD TOLEDO (CITY TRAFFIC ENGINEERING DIVISION) AT 857-8000 AT LEAST THREE (3) DAYS PRIOR TO CONSTRUCTION TO DETERMINE THE PLACEMENT OF THE FLASHING BEACON CONTROL CABINET ON THE EXISTING TRAFFIC SIGNAL CONTROLLER AND TO VERIFY THE WIRING REQUIREMENTS FOR THE FLASHING BEACON CONTROLLER.
- THE NEW SERVICE CONNECTION SHALL PROVIDE POWER TO BOTH THE EXISTING TRAFFIC SIGNAL CONTROLLER AND THE NEW FLASHING BEACON CONTROLLER. NEW SERVICE CONNECTION SHALL BE INSTALLED PRIOR TO DISCONNECTING EXISTING SERVICE CONNECTION.
- CITY TRAFFIC ENGINEERING STAFF (CONTACT - MR. EDWARD TOLEDO) SHALL MAKE FINAL SERVICE CONNECTION AT THIS INTERSECTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC CONTROL, AS APPROVED BY THE CITY PROJECT MANAGER, DURING THE RELOCATION OF THE EXISTING TRAFFIC SIGNAL CONTROLLER.
- CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS, AS APPROVED BY THE CITY PROJECT MANAGER, DURING THE INSTALLATION OF CONDUIT IN SIDEWALK AREAS.
- CONTRACTOR SHALL REPLACE IN KIND OR BETTER ALL CONCRETE SIDEWALK REMOVED OR DAMAGED IN THE CONDUCT OF ANY PROJECT WORK.
- PRIOR TO INSTALLATION OF CONDUIT IN SIDEWALK AREAS, THE CONTRACTOR SHALL CONTACT THE CITY PROJECT MANAGER AND OBTAIN APPROVAL FOR CONSTRUCTION PROCEDURE.





- ### NOTES
- CONTRACTOR SHALL CONTACT MR. EDWARD TOLEDO (CITY TRAFFIC ENGINEERING DIVISION) AT 857-8000 AT LEAST THREE (3) DAYS PRIOR TO CONSTRUCTION TO DETERMINE THE PLACEMENT OF THE FLASHING BEACON CONTROL CABINET ON THE EXISTING TRAFFIC SIGNAL CONTROLLER AND TO VERIFY THE WIRING REQUIREMENTS FOR THE FLASHING BEACON CONTROLLER.
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 - CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS, AS APPROVED BY THE CITY PROJECT MANAGER, DURING THE INSTALLATION OF CONDUIT IN SIDEWALK AREAS.
 - CONTRACTOR SHALL REPLACE IN KIND OR BETTER ALL CONCRETE SIDEWALK REMOVED OR DAMAGED IN THE CONDUCT OF ANY PROJECT WORK.
 - INSTALLATION OF NEW 2" CONDUIT WILL REQUIRE CHISELING LARGER DIAMETER HOLE IN EXISTING MASTARM FOUNDATION AND REGROUTING TO SEAL AROUND CHISELED AREA.
 - PRIOR TO INSTALLATION OF CONDUIT IN SIDEWALK AREAS, THE CONTRACTOR SHALL CONTACT THE CITY PROJECT MANAGER AND OBTAIN APPROVAL FOR CONSTRUCTION PROCEDURE.



AS-BUILT INFORMATION			
CONTRACTOR	BOONE	DATE 9/92	
WORK		DATE	
DESIGNED BY	JHK	DATE 2/94	
CHECKED BY	JHK	DATE 2/94	
RECORDED BY		DATE	
MICRO-FILM INFORMATION			
NO.		DATE	

SURVEY INFORMATION			
FIELD NOTES	DATE		
NO.	BY	DATE	

ENGINEER'S SEAL			
NO.	DATE	REVISIONS	BY
		DESIGN	
DESIGNED BY	MSM	DATE	5/92
DRAWN BY	DHW	DATE	5/92
CHECKED BY	MAF	DATE	5/92

CONDUIT SCHEDULE				
CONDUIT	LENGTH	SIZE	TYPE	REMARKS
1	10'	2"	REC	FOR SERVICE
2	54'	2"	REC	FOR SERVICE
3	5'	2"	REC	EXISTING
4	71'	2"	REC	EXISTING
5	20'	2"	REC	EXISTING
6	5'	2"	REC	
7	65'	2"	REC	
8	150'	2"	REC	
9	13'	2"	REC	
10	81'	2"	REC	EXISTING
11	5'	2"	REC	EXISTING
12	71'	2"	REC	
13	210'	2"	REC	
14	5'	2"	REC	

CONDUCTOR SCHEDULE					
CONDUIT					

