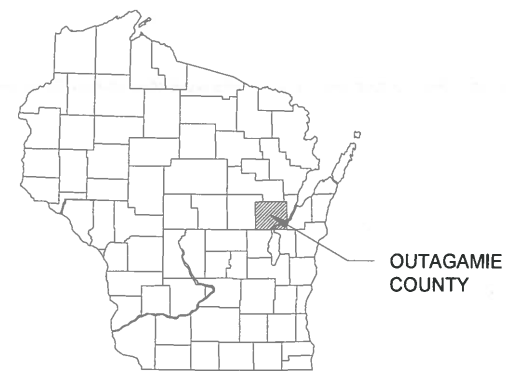


APPLETON INTERNATIONAL AIRPORT GREENVILLE, WISCONSIN

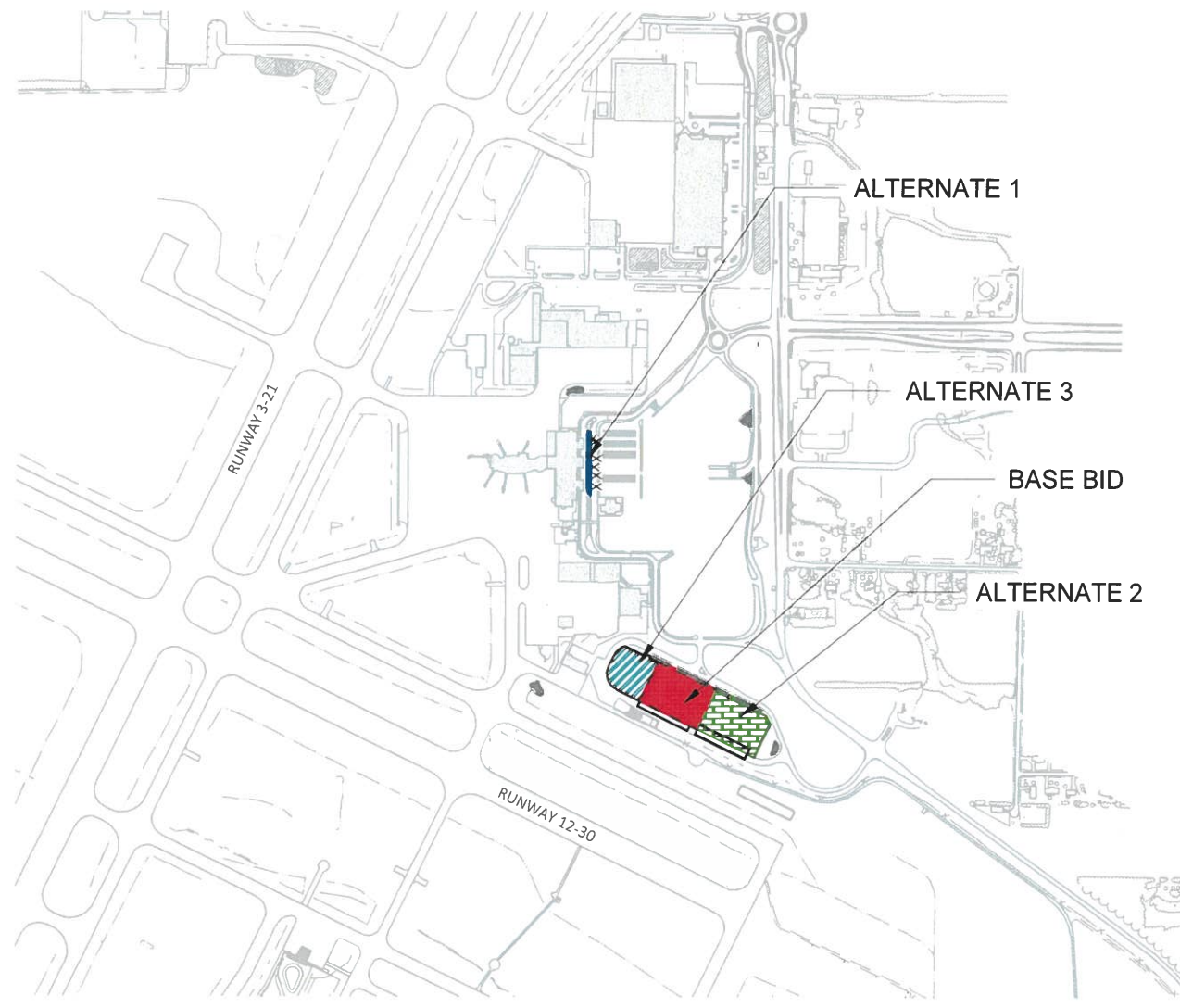
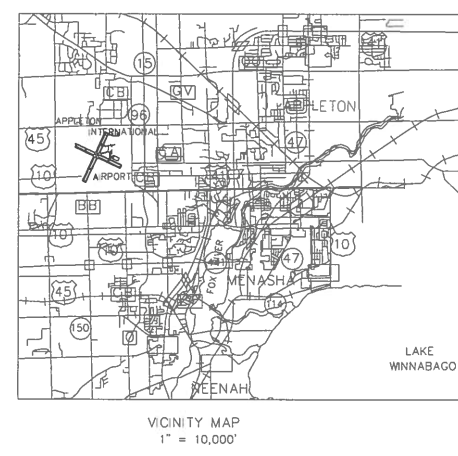
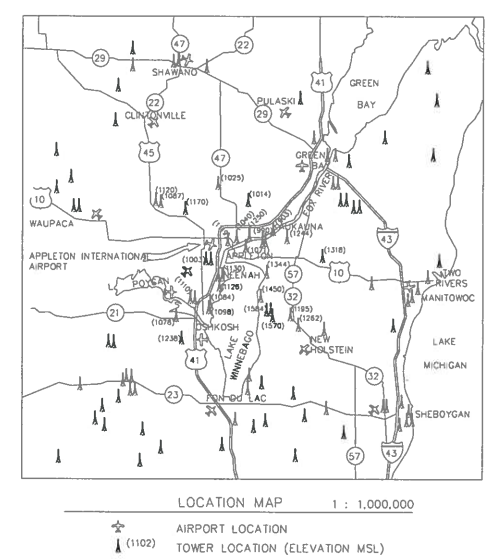


PLAN OF PROPOSED IMPROVEMENT PARKING LOT IMPROVEMENTS OUTAGAMIE COUNTY

INDEX OF SHEETS	
1	TITLE SHEET
2-4	SUMMARY OF QUANTITIES
5-7	CONSTRUCTION SAFETY PLAN
8-11	MISCELLANEOUS QUANTITIES
12	CONSTRUCTION DETAILS
13-15	GRADING & EROSION CONTROL PLAN
16-20	PAVING DETAILS
21-24	PAVEMENT MARKING PLAN
25	SIGN DETAILS
26-32	ELECTRICAL PLAN



OUTAGAMIE
COUNTY



N
TRUE NORTH
MAG. DECLINATION
3°39' W 2021



ORIGINAL PLANS PREPARED BY
Westwood

SUMMARY OF QUANTITIES OF MAJOR ITEMS- BASE BID

Item NUMBER	ITEM DESCRIPTION	TOTAL ESTIMATED QUANTITY	UNITS	AS-BUILT
205.0100	Excavation Common	3634	CY	
305.0110	Base Aggregate Dense 3/4-Inch	40	TON	
305.0120	Base Aggregate Dense 1 1/4-Inch	5410	TON	
455.0605	Tack Coat	668	GAL	
460.2000	Incentive Density HMA Pavement	1230	DOL	
460.5224	HMA Pavement 4 LT 58-28 S	1097	TON	
460.5225	HMA Pavement 5 LT 58-28 S	823	TON	
619.1000	Mobilization	1	EACH	
624.0100	Water	33	MGAL	
625.0500	Salvaged Topsoil	220	SY	
628.1504	Silt Fence	1103	LF	
628.1520	Silt Fence Maintenance	1103	LF	
628.1905	Mobilizations Erosion Control	1	EACH	
628.1910	Mobilizations Emergency Erosion Control	1	EACH	
628.2006	Erosion Mat Urban Class I Type A	220	SY	
630.0140	Seeding Mixture No. 40	4	LB	
630.0200	Seeding Temporary	6	LB	
630.0500	Seed water	5	MGAL	
638.2102	Moving Signs Type II	1	EACH	
638.3000	Removing Small Sign Supports	1	EACH	
643.0300	Traffic Control Drums	960	DAY	
643.0420	Traffic Control Barricades Type III	144	DAY	
646.8305	Marking Parking Stall Paint	5460	LF	
652.0210	Conduit Rigid Nonmetallic Schedule 40 1-Inch	705	LF	
652.0220	Conduit Rigid Nonmetallic Schedule 40 1 1/2-Inch	405	LF	
652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	1330	LF	
652.0605	Conduit Special 2-Inch	380	LF	
SPV.0060.01	Adjusting Water Valve Boxes	1	EACH	
SPV.0060.04	Precast Concrete wheel Stops	30	EACH	
SPV.0060.08	Concrete Bollard	14	EACH	
SPV.0060.09	Concrete Barricade Special	2	EACH	
SPV.0060.12	Concrete Bases with Junction Box	2	EACH	
SPV.0060.13	Lighting Units, Type P6	2	EACH	
SPV.0060.15	Concrete Handholes	11	EACH	
SPV.0060.18	Electrically Operated Barrier Gates	2	EACH	
SPV.0060.06	Sign Supports 2x2-Inch 14-FT	1	EACH	
SPV.0075.01	Street Sweeping	15	HRS	
SPV.0105.02	Metering and Panelboard Equipment	1	LS	
SPV.0105	Conduit Locating	1	LS	

SUMMARY OF QUANTITIES OF MAJOR ITEMS- ALTERNATIVE 1

Item NUMBER	ITEM DESCRIPTION	TOTAL ESTIMATED QUANTITY	UNITS	AS-BUILT
201.0105	Clearing	1	STA	
201.0205	Grubbing	1	STA	
204.0100	Removing Concrete Pavement	32	SY	
204.0150	Removing Curb & Gutter	298	LF	
204.0155	Removing Concrete Sidewalk	263	SY	
204.9060.S	Removing Flag Poles	1	EACH	
205.0100	Excavation Common	172	CY	
305.0120	Base Aggregate Dense 1 1/4-Inch	189	TON	
415.0070	Concrete Pavement 7-Inch	411	SY	
416.0610	Drilled Tie Bars	130	EACH	
416.0620	Drilled Dowel Bars	48	EACH	
601.0405	Concrete Curb & Gutter 18-Inch Type A	322	LF	
602.0405	Concrete Sidewalk 4-Inch	1925	SF	
602.0515	Curb Ramp Detectable Warning Field Natural Patina	192	SF	
619.1000	Mobilization	1	EACH	
624.0100	Water	1	MGAL	
628.1905	Mobilizations Erosion Control	1	EACH	
628.1910	Mobilizations Emergency Erosion Control	1	EACH	
628.7010	Inlet Protection Type B	2	EACH	
628.7015	Inlet Protection Type C	5	EACH	
637.2210	Signs Type II Reflective H	24	SF	
638.2102	Moving Signs Type II	19	EACH	
638.2602	Removing Signs Type II	3	EACH	
638.3000	Removing Small sign Supports	25	EACH	
643.0300	Traffic Control Drums	1120	DAY	
643.0410	Traffic Control Barricades Type II	48	DAY	
643.0420	Traffic Control Barricades Type III	112	DAY	
643.0705	Traffic Control Warning Lights Type A	272	DAY	
643.0715	Traffic Control Warning Lights Type C	98	DAY	
643.0900	Traffic Control Signs	160	DAY	
644.1810	Temporary Pedestrian Barricade	661	LF	
646.1005	Marking Line Paint 4-Inch	95	LF	
646.3005	Marking Line Paint 8-Inch	162	LF	
646.7505	Marking Crosswalk Paint Ladder Pattern 24-Inch	192	LF	
646.8305	Marking Parking Stall Paint	1387	LF	
646.9000	Marking Removal Line 4-Inch	127	LF	
646.9100	Marking Removal Line 8-Inch	60	LF	
652.0210	Conduit Rigid Nonmetallic Schedule 40 1-Inch	120	LF	
655.0615	Electrical Wire Lighting 10 AWG	420	LF	
690.0250	Sawing Concrete	495	LF	

SUMMARY OF QUANTITIES OF MAJOR ITEMS- ALTERNATIVE 1

715.0415	Incentive Strength Concrete Pavement	123	DOL	
SPV.0060.01	Adjusting Water Valves	3	EACH	
SPV.0060.02	Adjusting Sanitary Sewer Manhole	2	EACH	
SPV.0060.03	Relocating Trees	6	EACH	
SPV.0060.05	Sign Supports 2x2-Inch 10-FT	26	EACH	
SPV.0060.06	Sign Supports 2x2-Inch 14-FT	7	EACH	
SPV.0060.07	Erecting Airport Owned Signs	10	EACH	
SPV.0060.10	Flag Pole 35-FT	2	EACH	
SPV.0060.11	Flag Pole 40-FT	1	EACH	
SPV.0060.14	Floodlights, Type 1	4	EACH	
SPV.0075.01	Street Sweeping	15	HRS	
SPV.0105.01	Salvage Decorative Rocks	1	LS	
SPV.0165.01	Concrete Sidewalk 7-Inch HES	288	SF	

SUMMARY OF QUANTITIES OF MAJOR ITEMS- ALTERNATIVE 2					SUMMARY OF QUANTITIES OF MAJOR ITEMS- ALTERNATIVE 3				
Item NUMBER	ITEM DESCRIPTION	TOTAL ESTIMATED QUANTITY	UNITS	AS-BUILT	Item NUMBER	ITEM DESCRIPTION	TOTAL ESTIMATED QUANTITY	UNITS	AS-BUILT
205.0100	Excavation Common	3575	CY		305.0110	Base Aggregate Dense 3/4-Inch	10	TON	
305.0110	Base Aggregate Dense 3/4-Inch	40	TON		455.0605	Tack Coat	122	GAL	
305.0120	Base Aggregate Dense 1 1/4-Inch	5330	TON		460.2000	Incentive Density HMA Pavement	340	DOL	
455.0605	Tack Coat	663	GAL		460.5225	HMA Pavement 5 LT 58-28 S	526	TON	
460.2000	Incentive Density HMA Pavement	1220	DOL		619.1000	Mobilization	1	EACH	
460.5224	HMA Pavement 4 LT 58-28 S	1089	TON		643.0300	Traffic Control Drums	58	DAY	
460.5225	HMA Pavement 5 LT 58-28 S	816	TON		643.0420	Traffic Control Barricades Type III	4	DAY	
619.1000	Mobilization	1	EACH		646.8305	Marking Parking Stall Paint	3234	LF	
624.0100	Water	32	MGAL						
625.0500	Salvaged Topsoil	230	SY						
628.2006	Erosion Mat Urban Class I Type A	230	SY						
630.0140	Seeding Mixture No. 40	4	LB						
630.0200	Seeding Temporary	6	LB						
630.0500	Seed Water	5	MGAL						
646.8305	Marking Parking Stall Paint	5277	LF						
652.0210	Conduit Rigid Nonmetallic Schedule 40 1-Inch	520	LF						
652.0220	Conduit Rigid Nonmetallic Schedule 40 1 1/2-Inch	240	LF						
652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	375	LF						
655.0615	Electrical Wire Lighting 10 AWG	370	LF						
655.0620	Electrical Wire Lighting 8 AWG	90	LF						
655.0630	Electrical Wire Lighting 4 AWG	1024	LF						
SPV.0060.04	Precast Concrete Wheel Stops	30	EACH						
SPV.0060.09	Concrete Barricade Special	1	EACH						
SPV.0060.12	Concrete Bases with Junction Box	1	EACH						
SPV.0060.13	Lighting Units, Type P6	1	EACH						
SPV.0060.18	Electrically operated Barrier Gates	1	EACH						
SPV.0075.01	Street Sweeping	15	HRS						

PROJECT NO:

ATW PARKING LOT 2021

COUNTY: OUTAGAMIE

SUMMARY OF QUANTITIES

SHEET NO:

4 E

FILE NAME: F:\TRANSPORTATION\

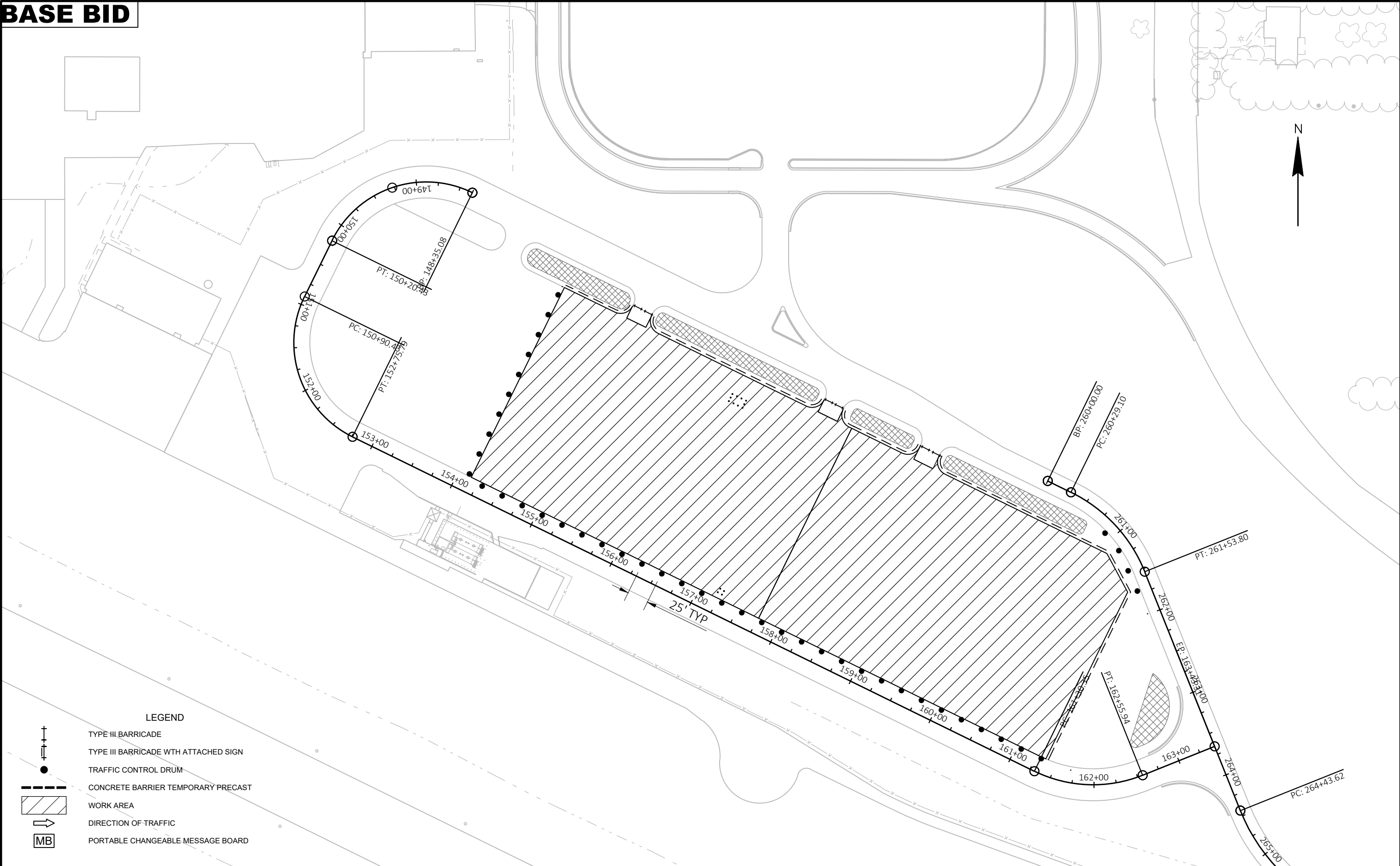
ORIGINATOR: OMNNI ASSOCIATES

ORIG. DATE:

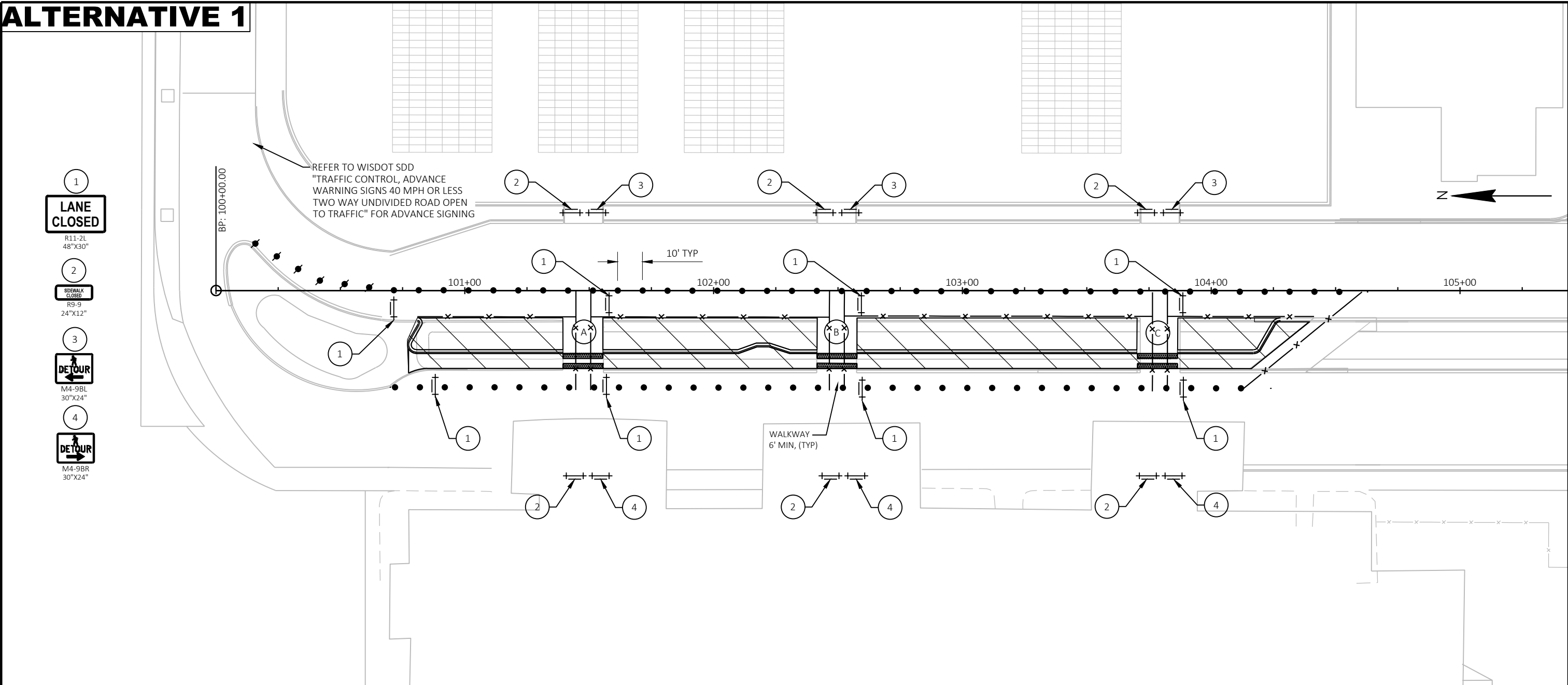
REV. DATE:

PRINT DATE: April 21, 2021

BASE BID

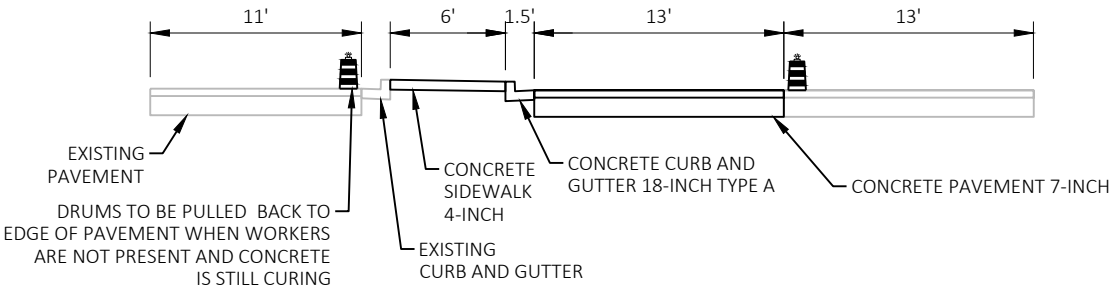


ALTERNATIVE 1



NOTES:
CROSSWALKS TO BE CLOSED ONLY DURING SIDEWALK REMOVAL AND PLACEMENT OF DETECTABLE WARNING FIELDS AND HES CONCRETE SIDEWALK.

ALL TRAFFIC CONTROL ITEMS TO BE REMOVED FROM TRAVEL LANES WHEN NOT IN USE. DRUMS TO BE PLACED AS SHOWN ON TYPICAL SECTION.

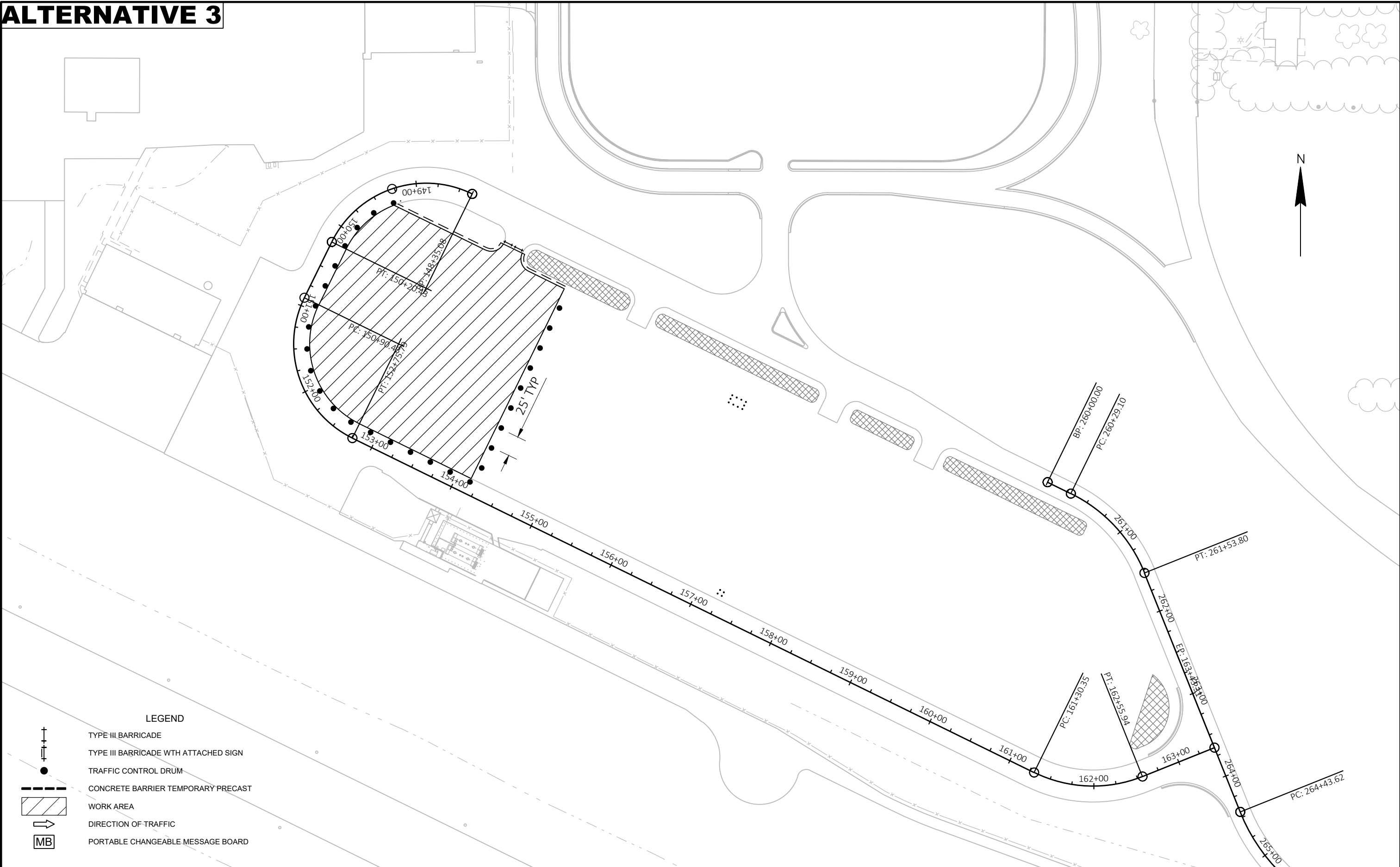


TYPICAL SECTION LOOKING NORTH

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY LIGHT
- || TYPE II BARRICADE WITH SIGN
- || TYPE III BARRICADE WITH SIGN
- || SIGN ON PERMANENT / TEMPORARY SUPPORT
- ▨ WORK AREA
- X-X- TEMPORARY PEDESTRIAN BARRICADE
- (A) CROSSWALK NAME
- (X) SIGN NUMBER

ALTERNATIVE 3



CLEARING/GRUBBING AND RELOCATING TREES

	201.0105 CLEARING	201.0205 GRUBBING	SPV.0060.03 RELOCATING TREES EACH
LOCATION	STA	STA	
E2317A18 PARKING 2021 ALTERNATIVE 1			
VALET PARKING	---	---	6
FLAG POLE	1	1	---
ALTERNATIVE 1 SUBTOTAL	1	1	6
PROJECT TOTALS	1	1	6

REMOVING PAVEMENT

STATION TO STATION		DIR	ROADWAY	204.0100 REMOVING PAVEMENT SY	204.0150 REMOVING CURB AND GUTTER LF	204.0155 REMOVING SIDEWALK SY
E2317A18 PARKING LOT - ALTERNATIVE 1						
			VALET PARKING	32	298	263
ALTERNATIVE 1 SUBTOTAL				32	298	263
PROJECT TOTAL				32	298	263

EXCAVATION

			205.0100 EXCAVATION COMMON
STATION TO STATION	DIR	LOCATION	CY
E2317A18 PARKING 2021 BASE BID			
		PARKING LOT	3634
BASE BID SUBTOTAL			3634
ALTERNATE 1			
		VALET PARKING	172
ALTERNATIVE 1 SUBTOTAL			172
ALTERNATE 2			
		PARKING LOT	3575
ALTERNATIVE 2 SUBTOTAL			3575
PROJECT TOTALS			7381

BASE COURSE

			305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	** 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL
STATION TO STATION	DIR	LOCATION			
E2317A18 PARKING 2021 BASE BID					
		PARKING LOT	40	5410	33
BASE BID SUBTOTAL				5410	33
ALTERNATE 1					
		VALET PARKING	0	140	1
ALTERNATIVE 1 SUBTOTAL				140	1
ALTERNATE 2					
		PARKING LOT	40	5330	32
ALTERNATIVE 2 SUBTOTAL				5330	32
ALTERNATE 3					
		PARKING LOT	10	10	0
ALTERNATIVE 3 SUBTOTAL				10	0
PROJECT TOTALS			90	10890	66

* ADDITIONAL QUANTITIES SHOWN IN SIDEWALK TABLE

CONCRETE PAVEMENT

			415.0070 CONCRETE PAVEMENT 7-INCH SY	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH	715.0415 INCENTIVE STRENGTH CONCRETE PAVEMENT DOL
STATION TO STATION	DIR	LOCATION				
E2317A18 PARKING LOT ALTERNATIVE 1						
		VALET PARKING	411	130	48	123
ALTERNATIVE 1 SUBTOTAL			411	130	48	123
PROJECT TOTALS			411	130	48	123

ASPHALTIC ITEMS

			455.0605 TACK COAT GAL	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	460.5225 HMA PAVEMENT 5 LT 58-28 S TON	465.0105 ASPHALTIC SURFACE TON	460.2000 INCENTIVE DENSITY HMA PAVEMENT DOL
STATION TO STATION	DIR	LOCATION					
E2317A18 PARKING 2021 BASE BID							
-	R/L	PARKING LOT	668	1,097	823	0	1,230
BASE BID SUBTOTAL			668	1,097	823	0	1,230
ALTERNATIVE 1							
		VALET PARKING	0	0	0	0	0
ALTERNATIVE 1 SUBTOTAL			0	0	0	0	0
ALTERNATIVE 2							
		PARKING LOT	663	1,089	816	0	1,220
ALTERNATIVE 2 SUBTOTAL			663	1,089	816	0	1,220
ALTERNATIVE 3							
		PARKING LOT	122	0	526	0	340
ALTERNATIVE 3 SUBTOTAL			122	0	526	0	340
PROJECT TOTALS			1,452	2,186	2,165	0	2,790

CONCRETE SIDEWALK

STATION TO STATION	DIR	LOCATION	**305.0120	602.0405	SPV.0165.01	602.0515
			BASE AGGREGATE DENSE 1 1/4-INCH	CONCRETE SIDEWALK		CURB RAMP
				4-INCH	7-INCH HES	DETECTABLE
						NATURAL PATINA
TON	SF	SF	SF			
E2317A18 PARKING 2021 ALTERNATIVE 1						
		VALET PARKING	49	1,925	288	192
ALTERNATIVE 1 TOTALS			49	1,925	288	192
PROJECT TOTALS			49	1,925	288	192

** ADDITIONAL QUANTITIES SHOWN ON BASE AGGREGATE TABLE

LANDSCAPING ITEMS

STATION TO STATION	DIR	LOCATION	625.0500	628.2006	630.0140	630.0200	630.0500
			SALVAGED TOPSOIL SY	EROSION MAT URBAN CLASS I TYPE A SY	SEEDING MIX NO. 40 LB	TEMP SEEDING LB	SEED WATER MGAL
E2317A18 PARKING LOT 2021 BASE BID							
		PARKING LOT	220	220	4	6	5
BASE BID SUBTOTAL			220	220	4	6	5
ALTERNATE 2							
		PARKING LOT	230	230	4	6	5
ALTERNATIVE 2 SUBTOTAL			230	230	4	6	5
PROJECT TOTALS			450	450	8	12	10

CONCRETE CURB AND GUTTER

			601.0405
			18-INCH TYPE A
STATION TO STATION	DIR	LOCATION	LF
E2317A18 PARKING 2021 ALTERNATIVE 1			
		VALET PARKING	322
ALTERNATIVE 1 SUBTOTALS			322
PROJECT TOTALS			322

EROSION CONTROL

					628.1504	628.1520	628.1905	628.1910	628.7010	628.7015
					SILT FENCE	SILT FENCE MAINTENANCE	MOBILIZATION EROSION CONTROL	MBILIZATION EMERGENCY EROSION	INLET PROTECTION TYPE B	INLET PROTECTION TYPE C
STATION TO STATION			DIR	LOCATION	LF	LF	EA	EA	EACH	EACH
E2317A18 PARKING 2021 BASE BID										
				PARKING LOT	1,053	1,053	----	----	---	---
				UNDISTRIBUTED	50	50	1	1	---	---
BASE BID SUBTOTAL					1,103	1,103	1	1	0	0
ALTERNATE 1										
				VALET PARKING	---	---	----	----	2	5
				UNDISTRIBUTED	---	---	1	1	---	---
ALTERNATIVE 1 SUBTOTAL					0	0	1	1	2	5
PROJECT TOTALS					1,103	1,103	2	2	2	5

TRAFFIC CONTROL

LOCATION	APPROX. SERVICE PERIOD DAYS	643.0300		643.0410		643.0420		643.0705		643.0715		643.0900		644.1810		
		DRUMS		BARRICADES TYPE II		BARRICADES TYPE III		WARNING LIGHTS TYPE A		WARNING LIGHTS TYPE C		TRAFFIC CONTROL SIGNS		TEMPORARY PEDESTRIAN BARRICADE		
		NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	LF
E2317A18 PARKING LOT 2021 BASE BID																
PARKING LOT	24	40	960	--	--	6	144	0	0	0	0	0	0	--		
BASE BID SUBTOTALS		960				144		0		0		0		0		
ALTERNATIVE 1																
EASTERN LOOP VALET - PEDESTRIAN	4	80	320	12	48	8	32	28	112	7	28	20	80	---		
EASTERN LOOP VALET	10	80	800	0	0	8	80	16	160	7	70	8	80	661		
ALTERNATIVE 1 SUBTOTALS		1,120				48		112		98		160		661		
ALTERNATIVE 3																
PARKING LOT	2	29	58	--	--	2	4	0	0	0	0	0	0	---		
ALTERNATIVE 3 SUBTOTALS		58				4		0		0		0		0		
PROJECT TOTALS																
		2,138				48		260		272		98		160		661

SIGNING

SIGN NO.	STATION	LOCATION	DESCRIPTION	SPV.0060.05 SIGN SUPPORTS 2X2-INCH 10-FT EACH	SPV.0060.06 SIGN SUPPORTS 2X2-INCH 14-FT EACH	SPV.0060.07 ERECTING AIRPORT OWNED SIGNS EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
E2317A18 PARKING 2021 BASE BID										
101		PARKING LOT	WATER TENDERS	--	1	--	--	1	--	1
BASE BID SUBTOTAL				0	1	0	0	1	0	1
E2317A18 PARKING 2021 ALTERNATIVE 1										
201	100+65	LT	VALET PARKING	ATW VALET DROP OFF	--	2	--	12	--	--
202	100+65	RT	VALET PARKING	ATW VALET DROP OFF	--	2	--	12	--	--
203	100+80	RT	VALET PARKING	LAW ENFORCEMENT VEHICLES	--	--	--	--	1	1
204	100+85	RT	VALET PARKING	ACTIVE LOADING AND UNLOADING	--	1	--	1	--	1
205	101+60	RT	VALET PARKING	ACTIVE LOADING AND UNLOADING	--	--	--	--	1	1
206	101+60	RT	VALET PARKING	NO SIGN	--	--	--	--	--	1
207	102+40	RT	VALET PARKING	NO SIGN	--	--	--	--	--	1
208	102+60	RT	VALET PARKING	ACTIVE LOADING AND UNLOADING	--	--	--	--	1	1
209	102+60	RT	VALET PARKING	NO SIGN	--	--	--	--	--	1
210	103+90	RT	VALET PARKING	ACTIVE LOADING AND UNLOADING	--	1	--	1	--	1
211	103+90	RT	VALET PARKING	TAXI WAITING AREA	--	1	--	1	--	1
212		LT	VALET PARKING	VALET STALL #	1	--	--	1	--	--
213		LT	VALET PARKING	VALET STALL #	1	--	--	1	--	--
214		LT	VALET PARKING	VALET STALL #	1	--	--	1	--	--
215		LT	VALET PARKING	VALET STALL #	1	--	--	1	--	1
216		LT	VALET PARKING	VALET STALL #	1	--	--	1	--	1
217		LT	VALET PARKING	VALET STALL #	1	--	--	1	--	1
218		LT	VALET PARKING	VALET STALL #	1	--	--	1	--	1
219		LT	VALET PARKING	VALET STALL #	1	--	--	1	--	1
220		LT	VALET PARKING	VALET STALL #	1	--	--	1	--	1
221		LT	VALET PARKING	VALET STALL #	1	--	--	1	--	1
222		LT	VALET PARKING	VALET STALL #	1	--	--	1	--	1
223		LT	VALET PARKING	VALET STALL #	1	--	--	1	--	1
224		LT	VALET PARKING	VALET STALL #	1	--	--	1	--	1
225		LT	VALET PARKING	VALET STALL #	1	--	--	1	--	1
226		LT	VALET PARKING	VALET STALL #	1	--	--	1	--	1
227		LT	VALET PARKING	VALET STALL #	1	--	--	1	--	1
228		LT	VALET PARKING	VALET STALL #	1	--	1	--	--	1
229		LT	VALET PARKING	VALET STALL #	1	--	1	--	--	1
230		LT	VALET PARKING	VALET STALL #	1	--	1	--	--	1
231		LT	VALET PARKING	VALET STALL #	1	--	1	--	--	--
232		LT	VALET PARKING	VALET STALL #	1	--	1	--	--	--
233		LT	VALET PARKING	VALET STALL #	1	--	1	--	--	--
234		LT	VALET PARKING	VALET STALL #	1	--	1	--	--	--
235		LT	VALET PARKING	VALET STALL #	1	--	1	--	--	--
236		LT	VALET PARKING	VALET STALL #	1	--	1	--	--	--
237		LT	VALET PARKING	VALET STALL #	1	--	1	--	--	--
ALTERNATIVE 1 SUBTOTAL				26	7	10	24	19	3	25
PROJECT TOTALS				26	8	10	24	20	3	26

PAVEMENT MARKING REMOVAL

STATION TO STATION			LOCATION	646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9100 MARKING REMOVAL LINE 8-INCH LF	COMMENTS
E2317A18 PARKING 2021 ALTERNATIVE 1						
100+00	-	100+87	VALET PARKING	-	60	EDGE LINE AND DIAGONALS
103+86	-	105+00	VALET PARKING	127	-	LANE LINE AND STALL MARKINGS
ALTERNATIVE 1 SUBTOTALS				127	60	
PROJECT TOTALS				127	60	

PAVEMENT MARKING

STATION TO STATION		ROADWAY	646.1005 MARKING LINE PAINT 4-INCH (WHITE) LF	646.3005 MARKING LINE PAINT 8-INCH (WHITE) LF	646.7505 MARKING CROSSWALK PAINT BLOCK STYLE 24-INCH (WHITE) LF	646.8305 MARKING STALL PAINT (YELLOW) LF
E2317A18 PARKING LOT 2021 BASE BID						
		PARKING LOT	---	---	---	5460
BASE BID SUBTOTAL			0	0	0	5,460
ALTERNATIVE 1						
		VALET PARKING	95	162	192	1387
ALTERNATE 1 SUBTOTAL			95	162	192	1,387
ALTERNATIVE 2						
		PARKING LOT	---	---	---	5277
ALTERNATIVE 2 SUBTOTAL			0	0	0	5,277
ALTERNATIVE 3						
		PARKING LOT	---	---	---	3234
ALTERNATIVE 3 SUBTOTAL			0	0	0	3,234
PROJECT TOTAL			95	162	192	15,358

STREET SWEEPING

PROJECT	LOCATION	SPV.0075.01 STREET SWEEPING HRS
E2317A18 PARKING 2021 BASE BID		
	PARKING LOT	15
BASE BID SUBTOTAL		15
ALTERNATE 1		
	VALET PARKING	15
ALTERNATE 1 SUBTOTAL		15
ALTERNATE 2		
	PARKING LOT	15
ALTERNATE 2 SUBTOTAL		15
PROJECT TOTAL		45

SALVAGE DECORATIVE ROCKS

	SPV.0105.01 SALVAGE DECORATIVE ROCKS LS
LOCATION	LS
E2317A18 PARKING 2021 ALTERNATIVE 1	
VALET PARKING	1
ALTERNATIVE 1 SUBTOTAL	1
PROJECT TOTALS	1

SAWCUTS

STATION TO STATION		DIR	LOCATION	690.0250 SAWING CONCRETE LF
E2317A18 PARKING 2021 ALTERNATIVE 1				
			VALET PARKING	495.0
ALTERNATIVE 1 SUBTOTALS				495.0
PROJECT TOTALS				495

FLAG POLES

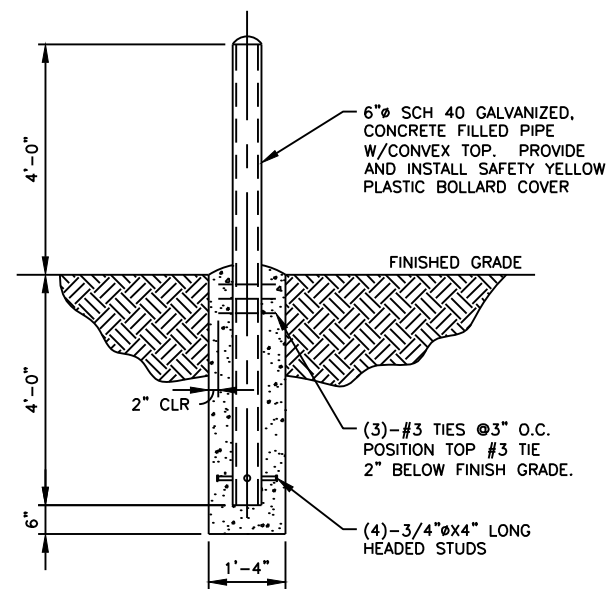
LOCATION	204.9060.S REMOVING FLAG POLES STA	SPV.0060.10 FLAG POLE 35-FT STA	SPV.0060.11 FLAG POLE 40-FT EACH
E2317A18 PARKING 2021 ALTERNATIVE 1			
VALET PARKING	3	---	---
FLAG POLE	---	2	1
ALTERNATIVE 1 SUBTOTAL	3	2	1
PROJECT TOTALS	3	2	1

BARRICADES

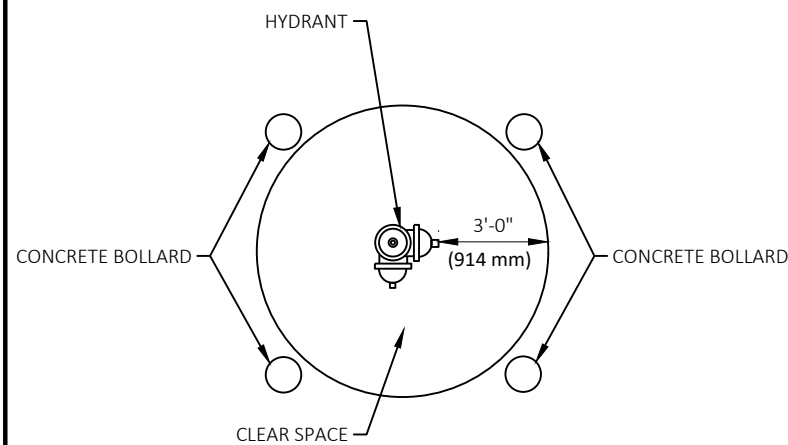
STATION TO STATION	LOCATION	SPV.0060.04 PRECAST CONCRETE WHEEL STOPS EACH	SPV.0060.08 CONCRETE BOLLARD EACH	SPV.0060.09 CONCRETE BARRICADE SPECIAL EACH
E2317A18 PARKING 2021 BASE BID				
	PARKING LOT	30	14	2
BASE BID SUBTOTAL		30	14	2
ALTERNATIVE 2				
	PARKING LOT	30	---	1
ALTERNATIVE 2 SUBTOTAL		30	0	1
PROJECT TOTALS		60	14	3

ADJUSTING UTILITIES

STATION	DIRECTION	LOCATION	SPV.0060.01 ADJUSTING WATER VALVE BOXES EA	SPV.0060.02 ADJUSTING SANITARY MANHOLE EA
E2317A18 PARKING 2021 BASE BID				
157+25	LT	SERVICE ROAD AREA	1	---
BASE BID SUBTOTAL			1	0
ALTERNATIVE 1				
101+62	RT	EASTERN LOOP	---	1
102+16	RT	EASTERN LOOP	1	---
102+18	RT	EASTERN LOOP	1	---
104+06	RT	EASTERN LOOP	1	---
104+16	RT	EASTERN LOOP	---	1
ALTERNATIVE 1 SUBTOTAL			3	2
PROJECT TOTAL			4	2

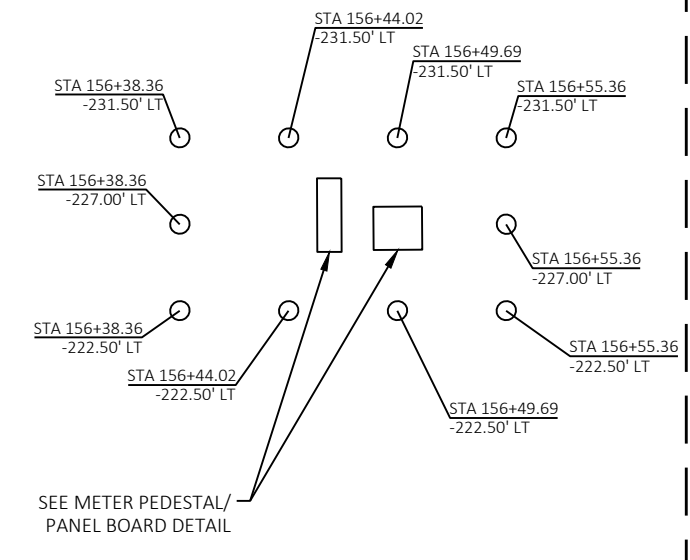


CONCRETE BOLLARD

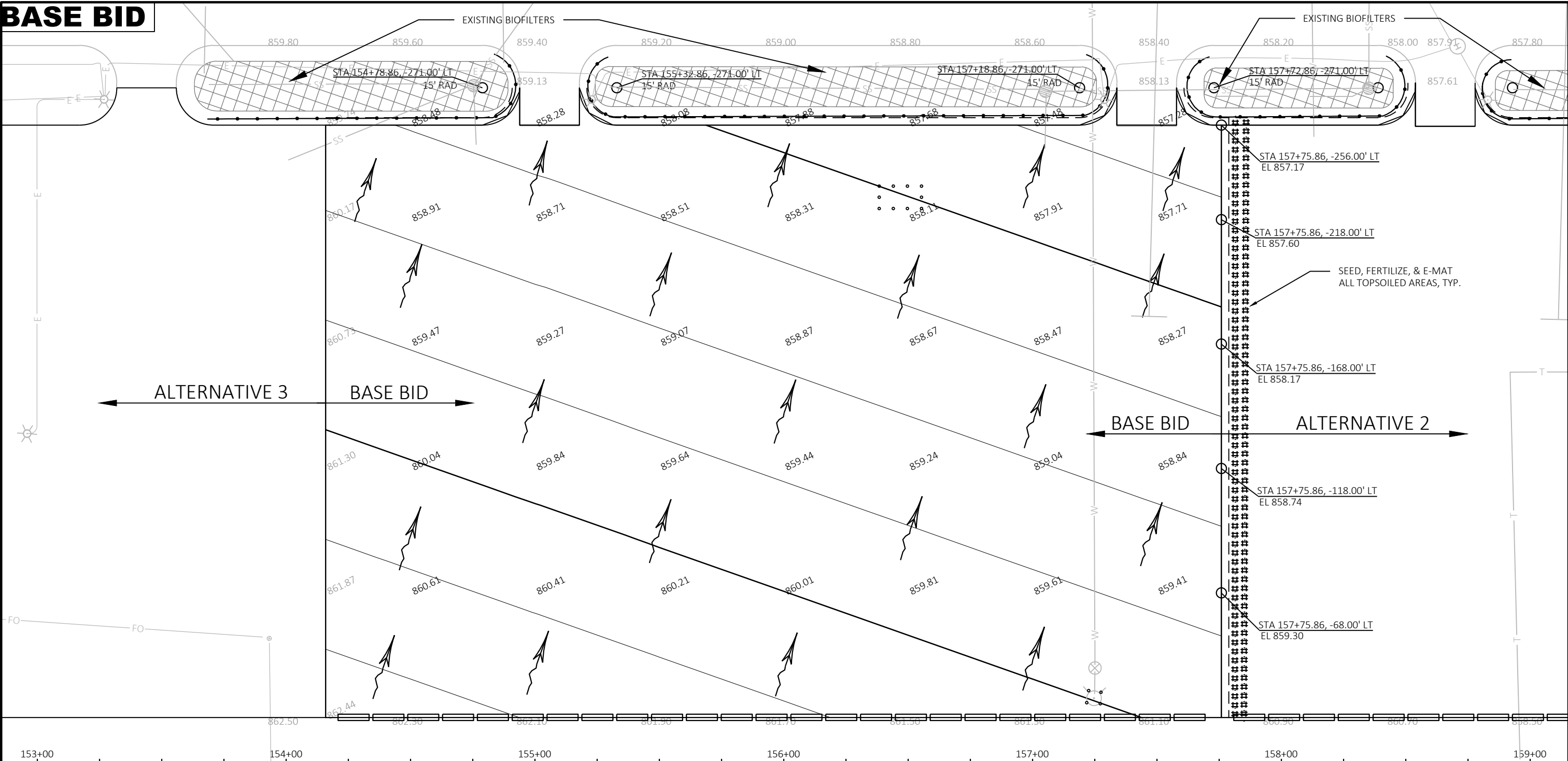


HYDRANT IMPACT PROTECTION

BOLLARD DETAIL A



BASE BID



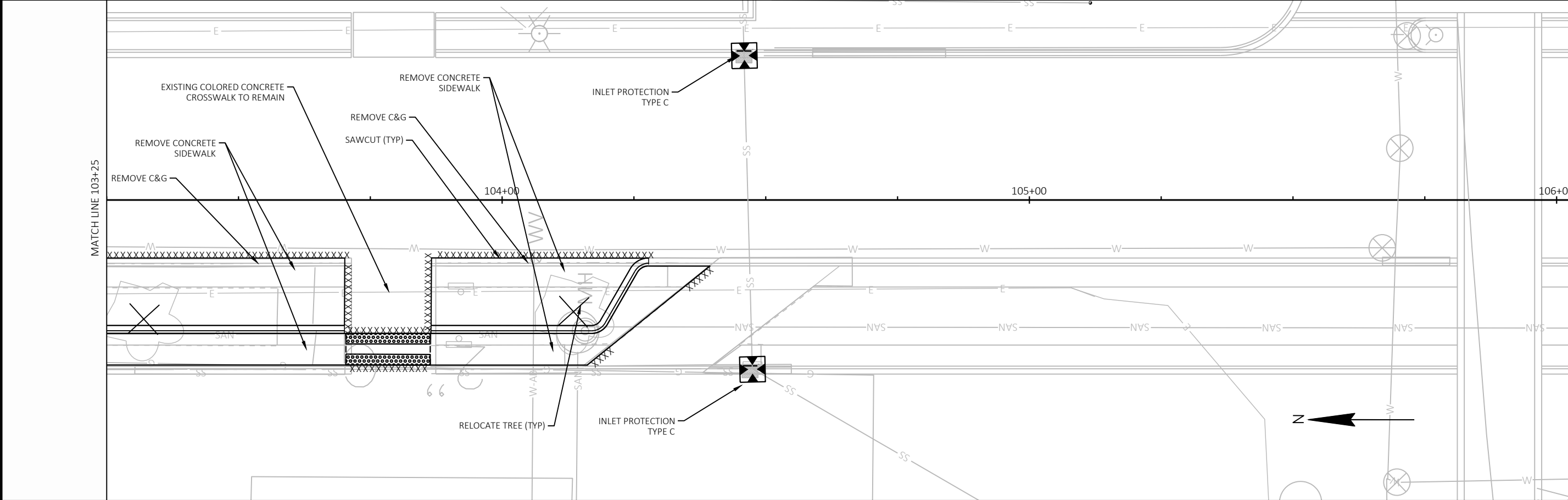
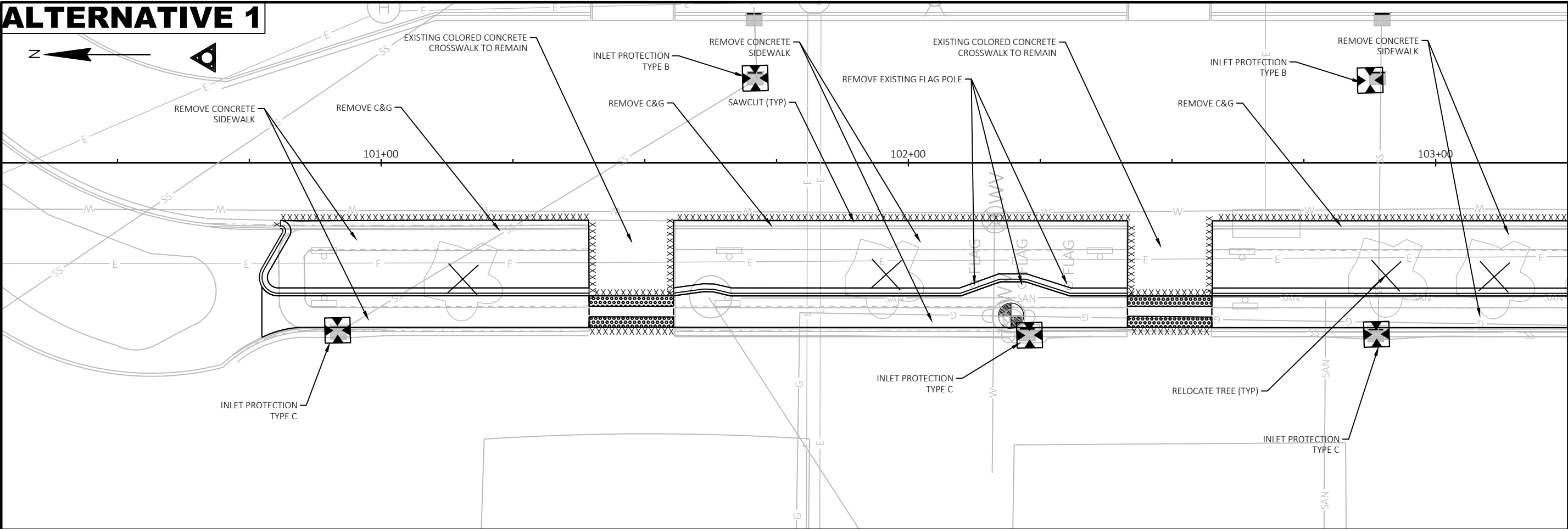
LEGEND

- ##### EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- - - SLOPE INTERCEPT
- ⊠ INLET PROTECTION
- △△△ TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- ~> SURFACE WATER FLOW

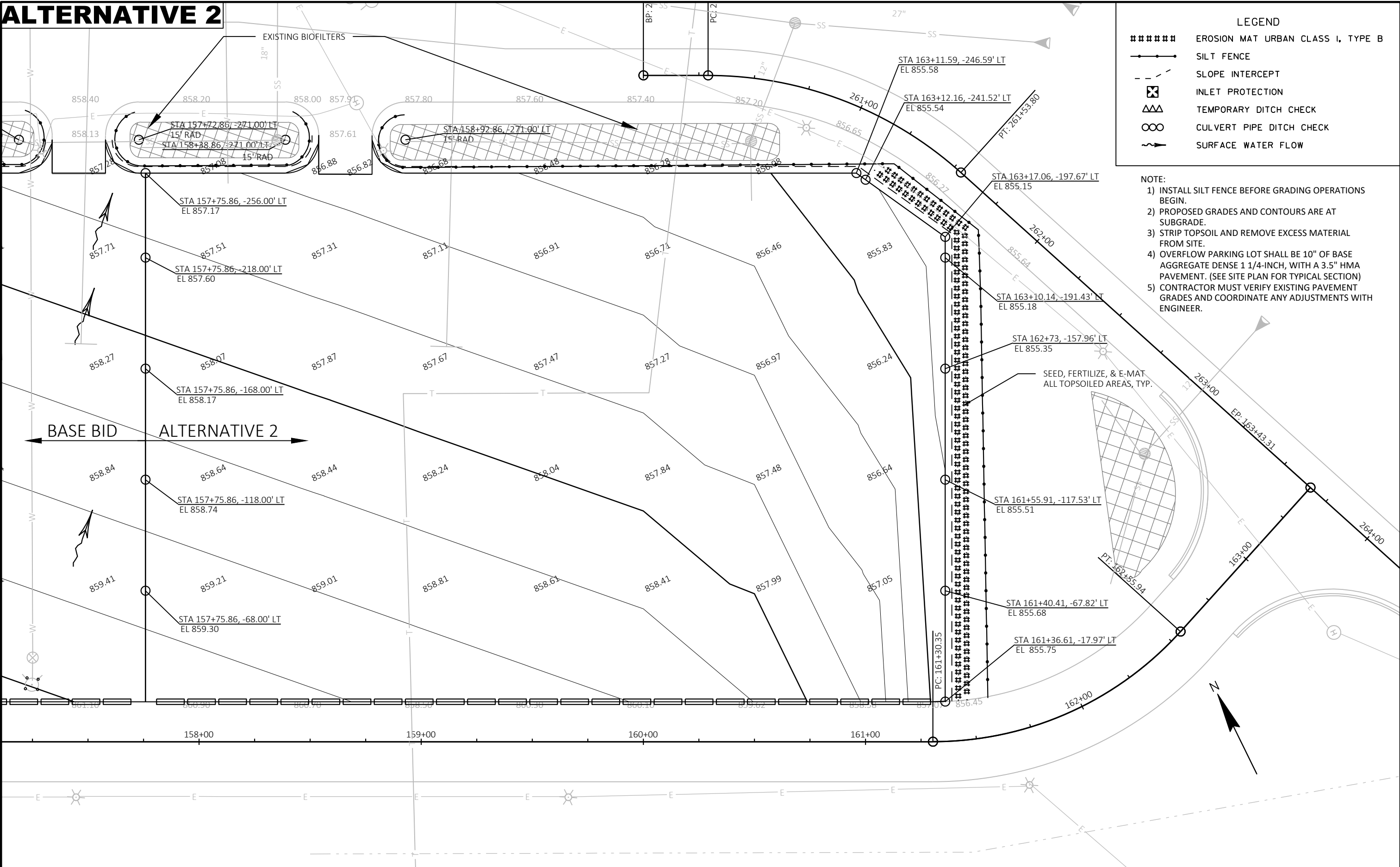
- NOTE:**
- 1) INSTALL SILT FENCE BEFORE GRADING OPERATIONS BEGIN.
 - 2) PROPOSED GRADES AND CONTOURS ARE AT SUBGRADE.
 - 3) STRIP TOPSOIL AND REMOVE EXCESS MATERIAL FROM SITE.
 - 4) OVERFLOW PARKING LOT SHALL BE 10" OF BASE AGGREGATE DENSE 1 1/4-INCH, WITH 3.5" HMA PAVEMENT. (SEE SITE PLAN FOR TYPICAL SECTION)
 - 5) CONTRACTOR MUST VERIFY EXISTING PAVEMENT GRADES AND COORDINATE ANY ADJUSTMENTS WITH ENGINEER.



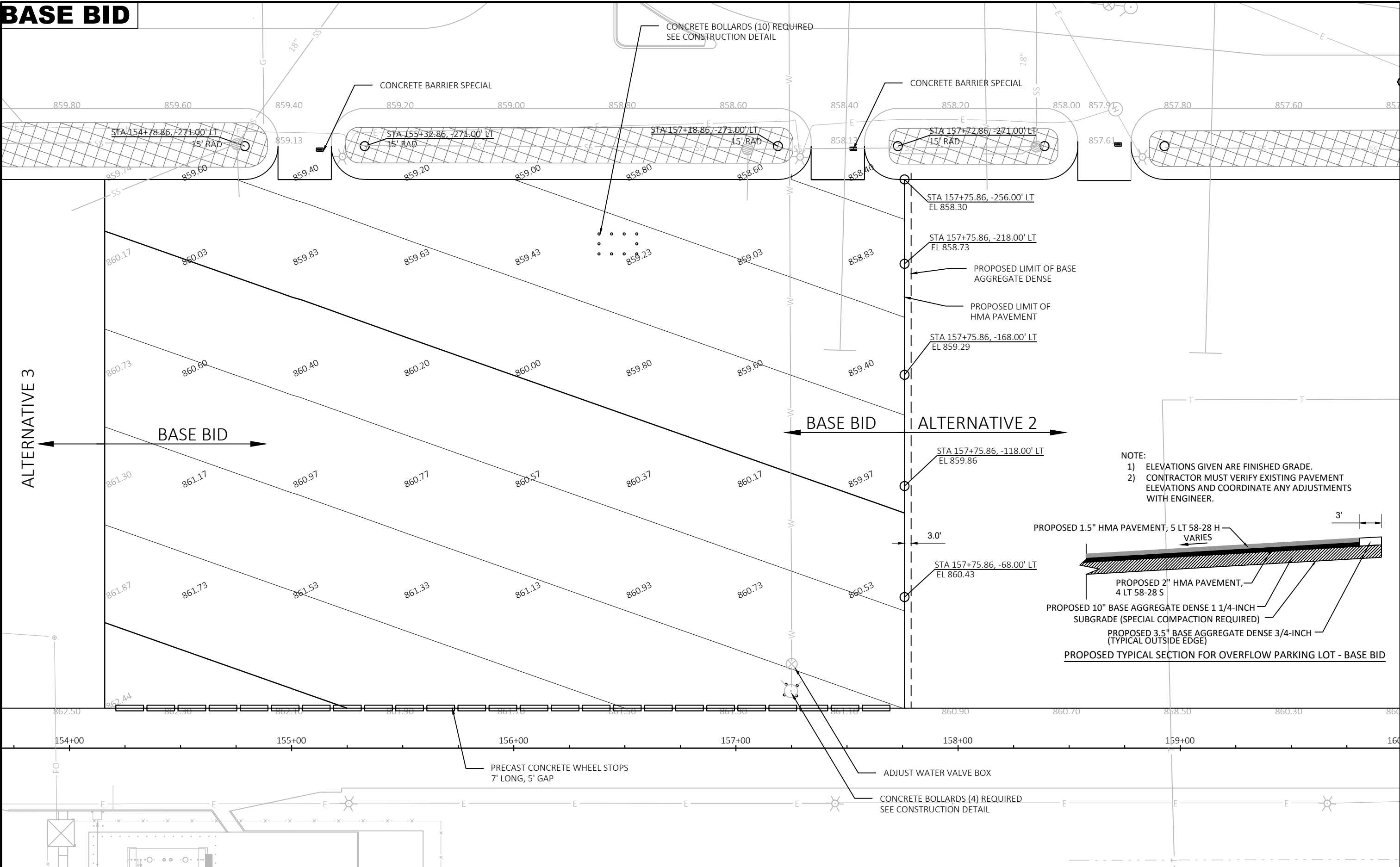
ALTERNATIVE 1



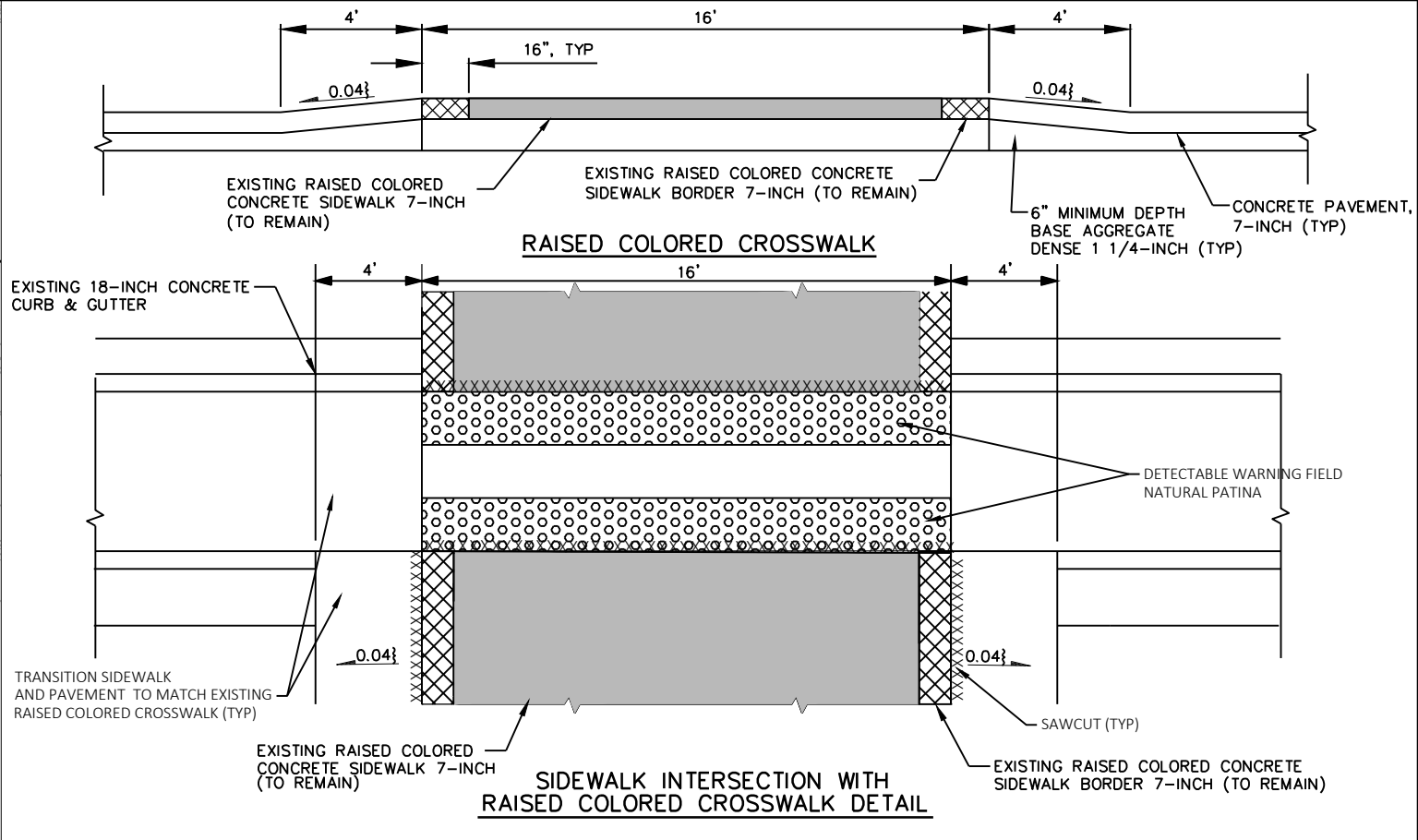
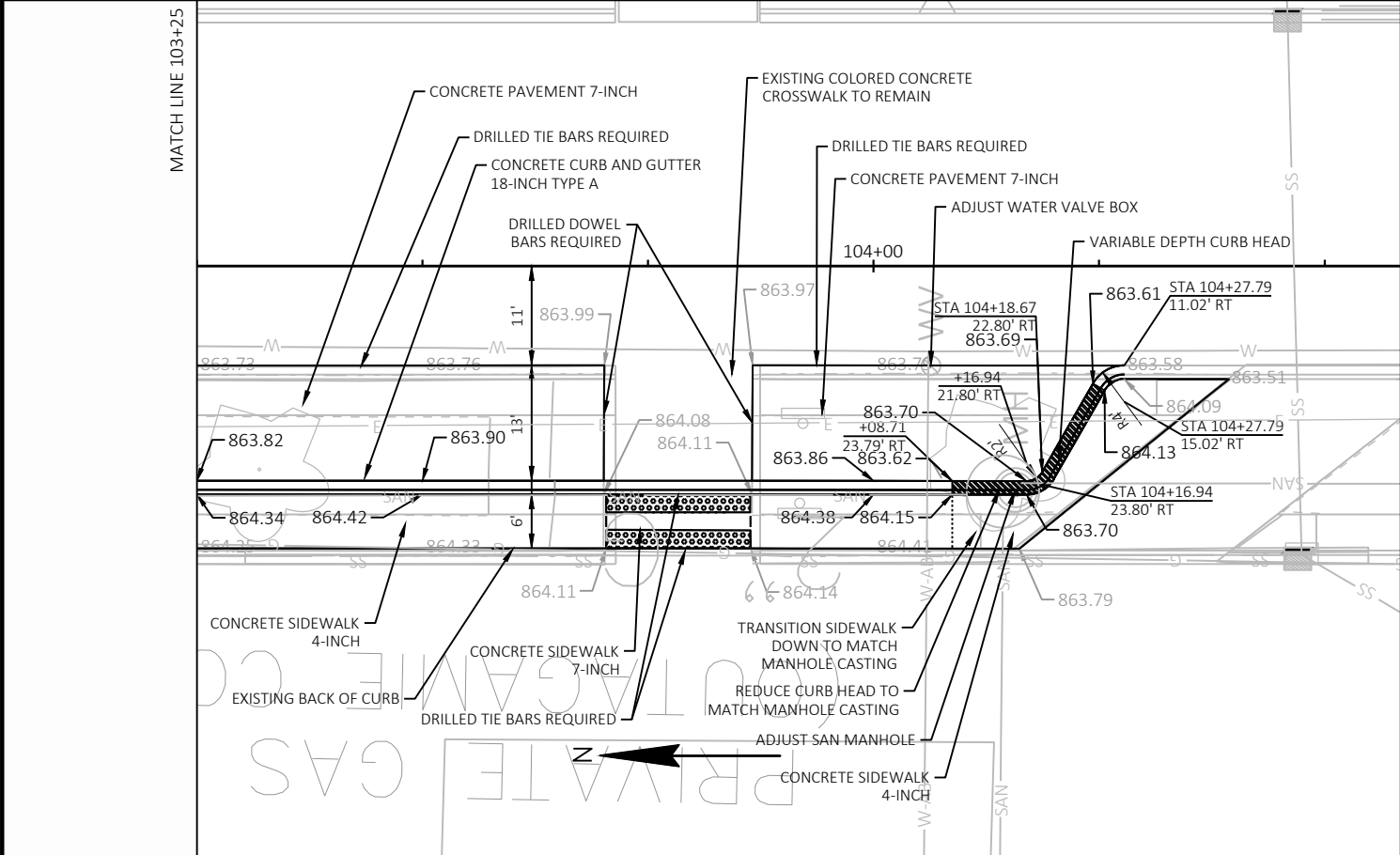
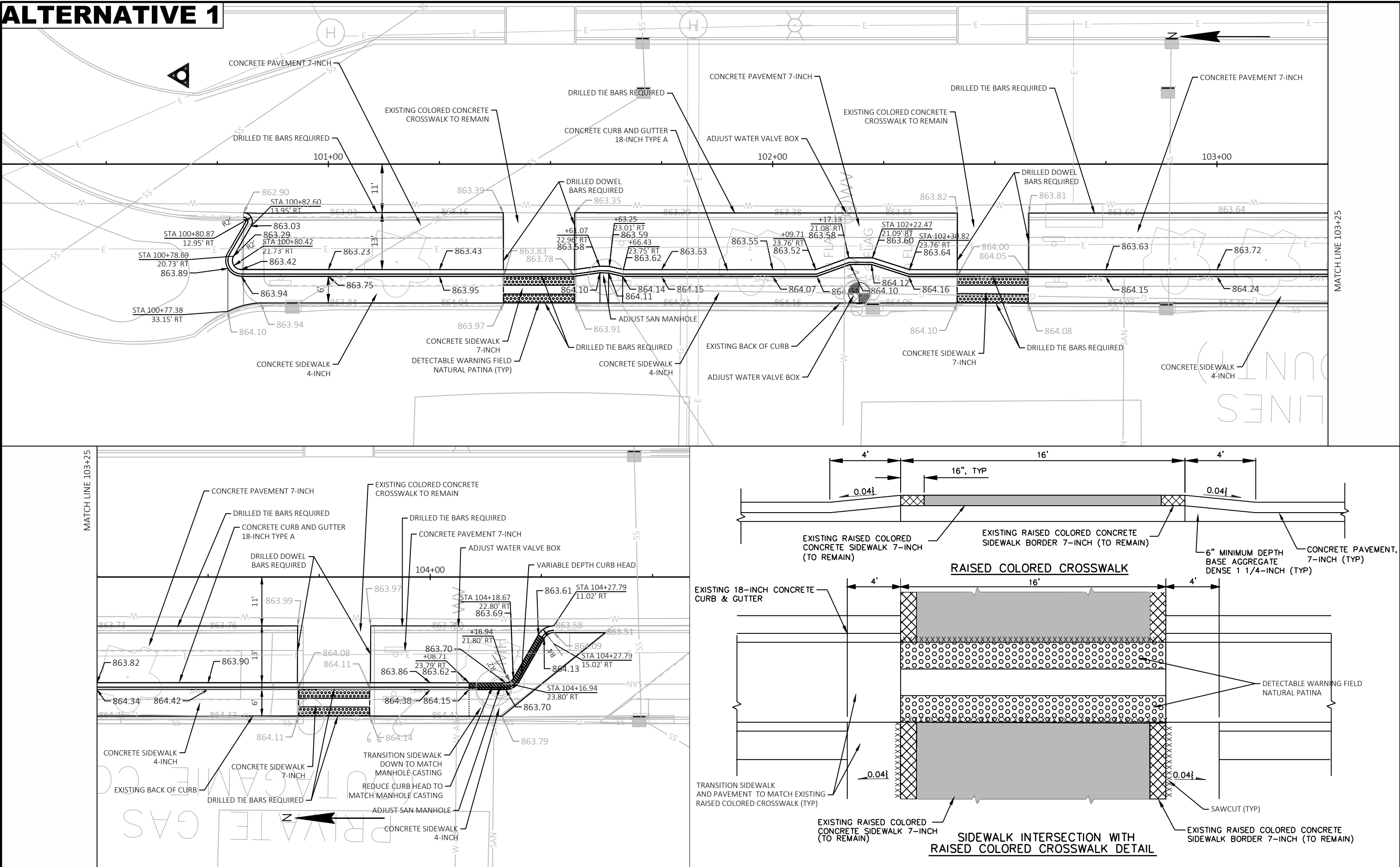
ALTERNATIVE 2



BASE BID



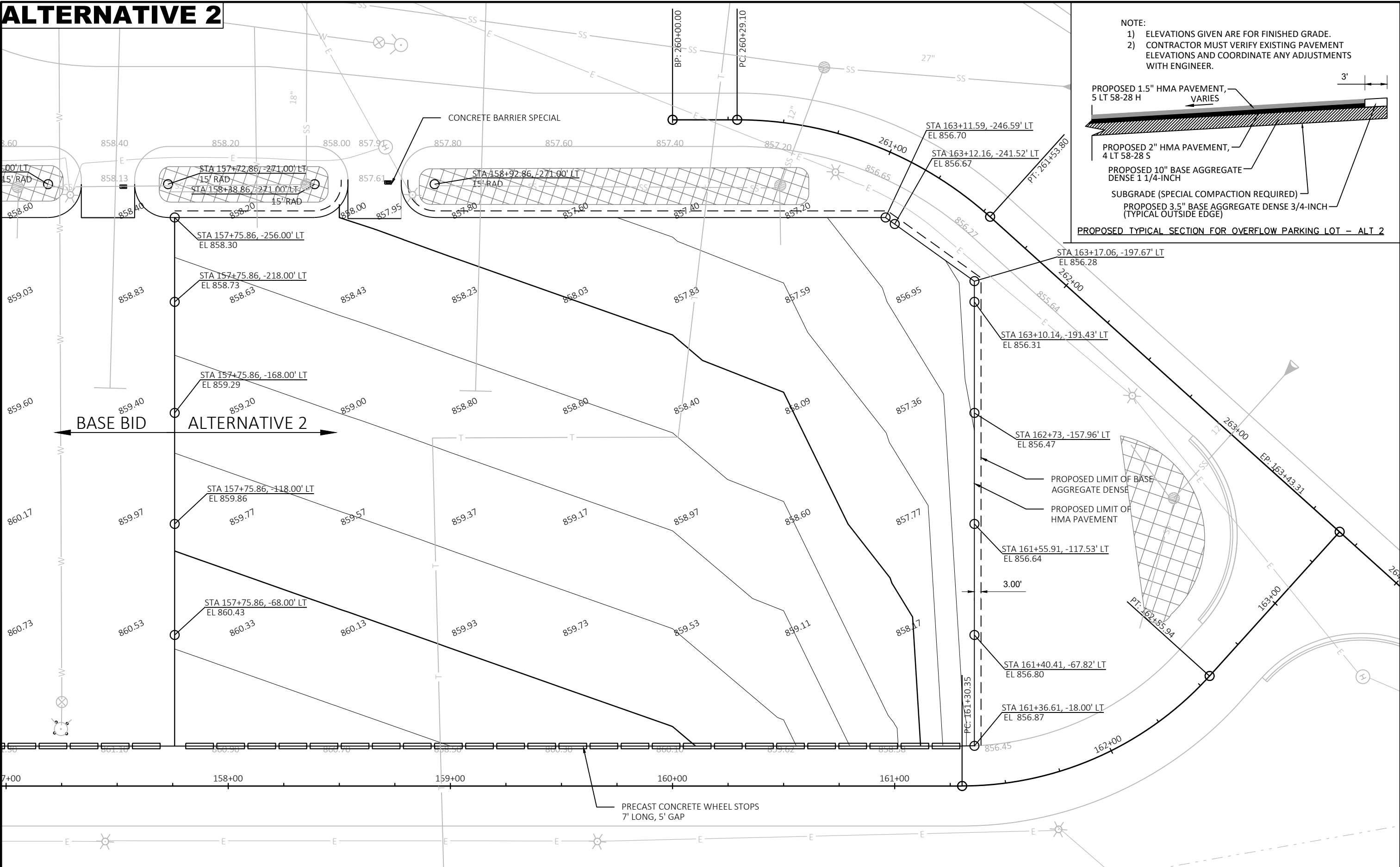
ALTERNATIVE 1



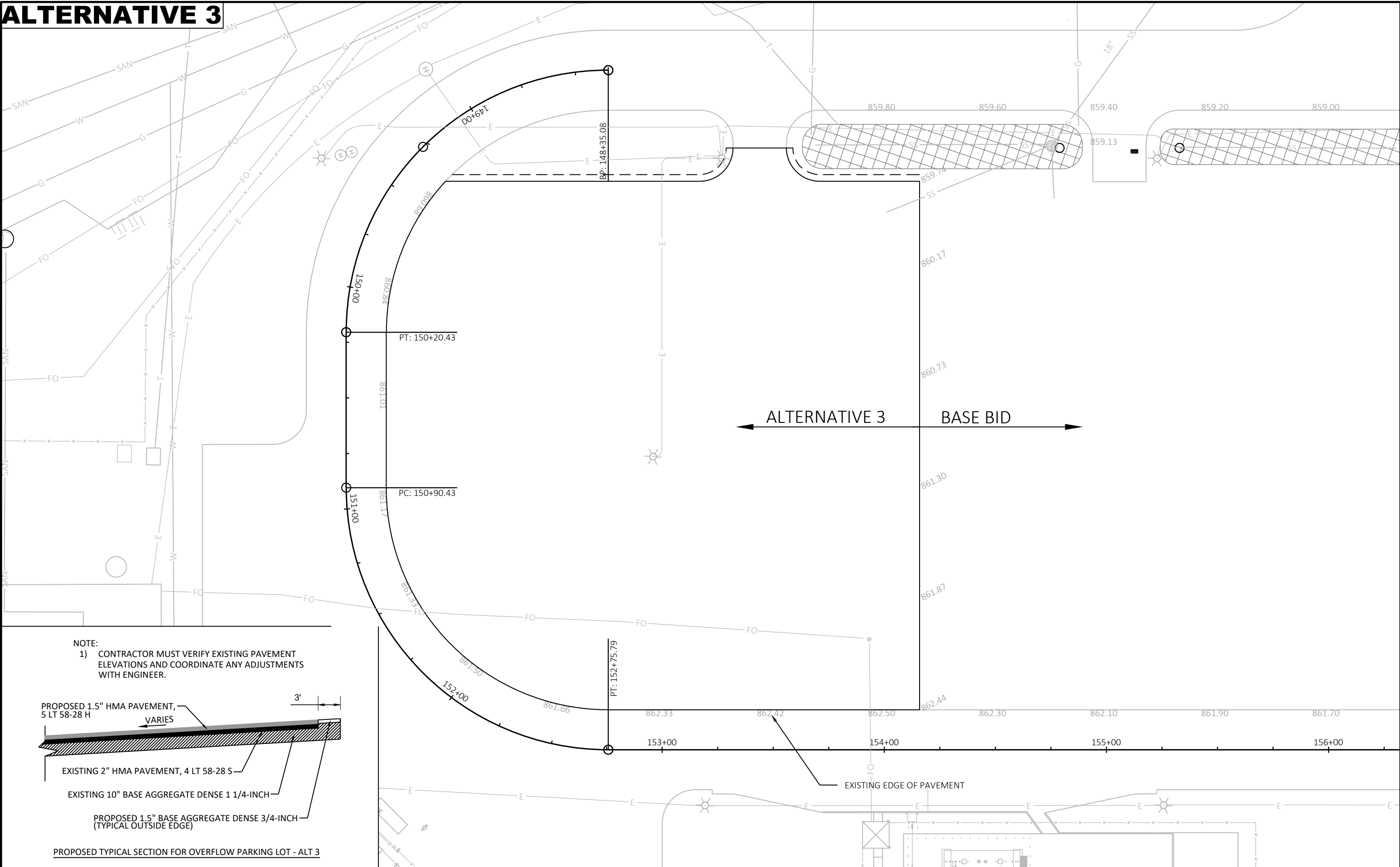
ALTERNATIVE 1



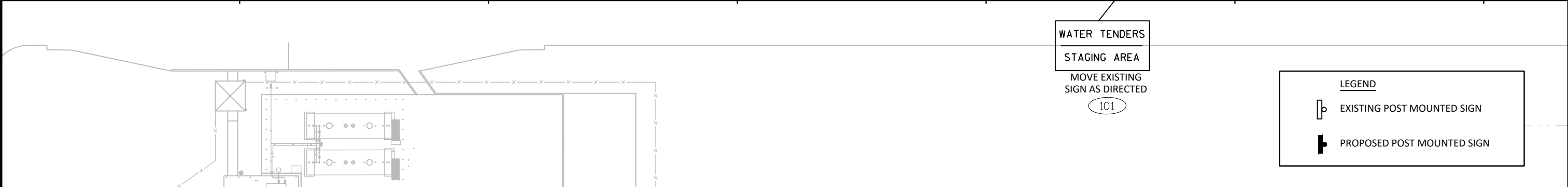
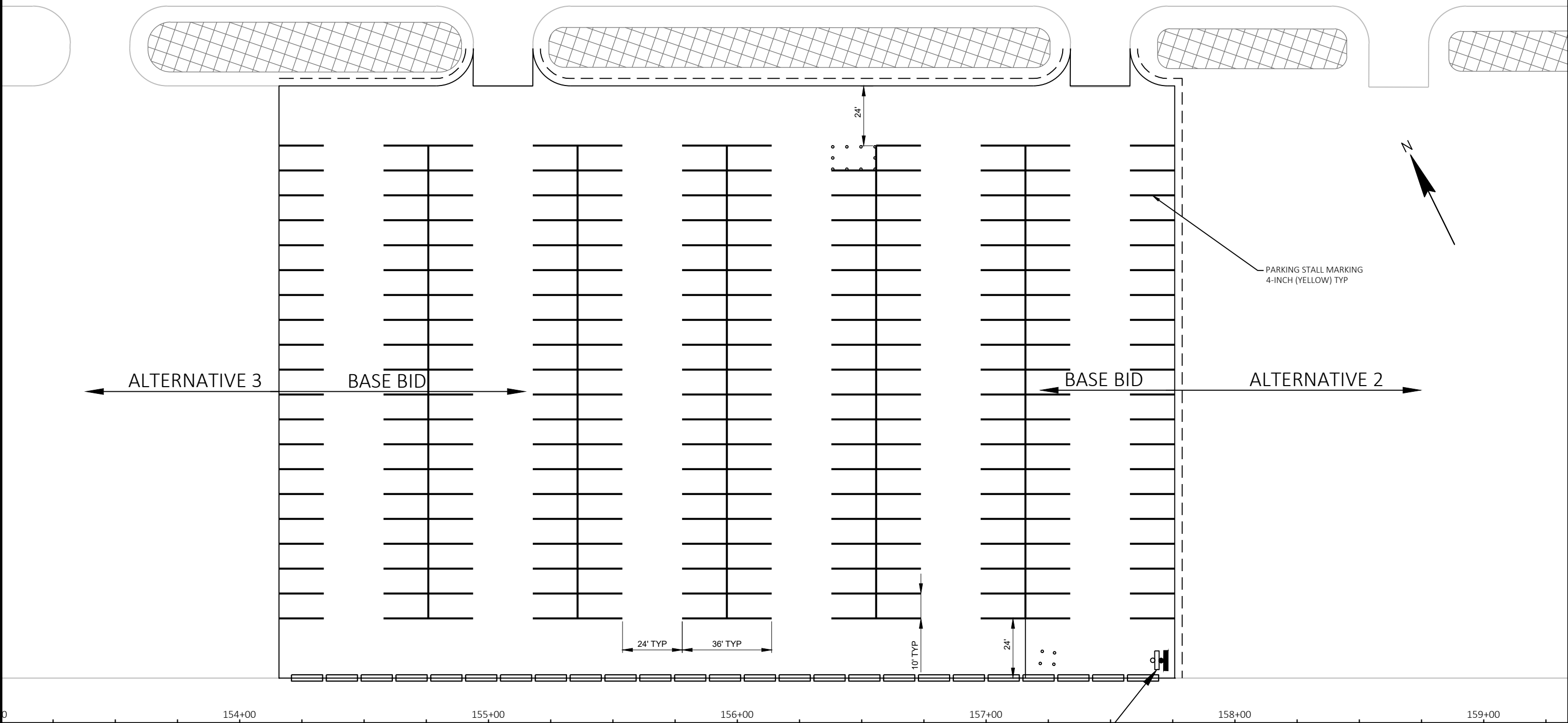
ALTERNATIVE 2



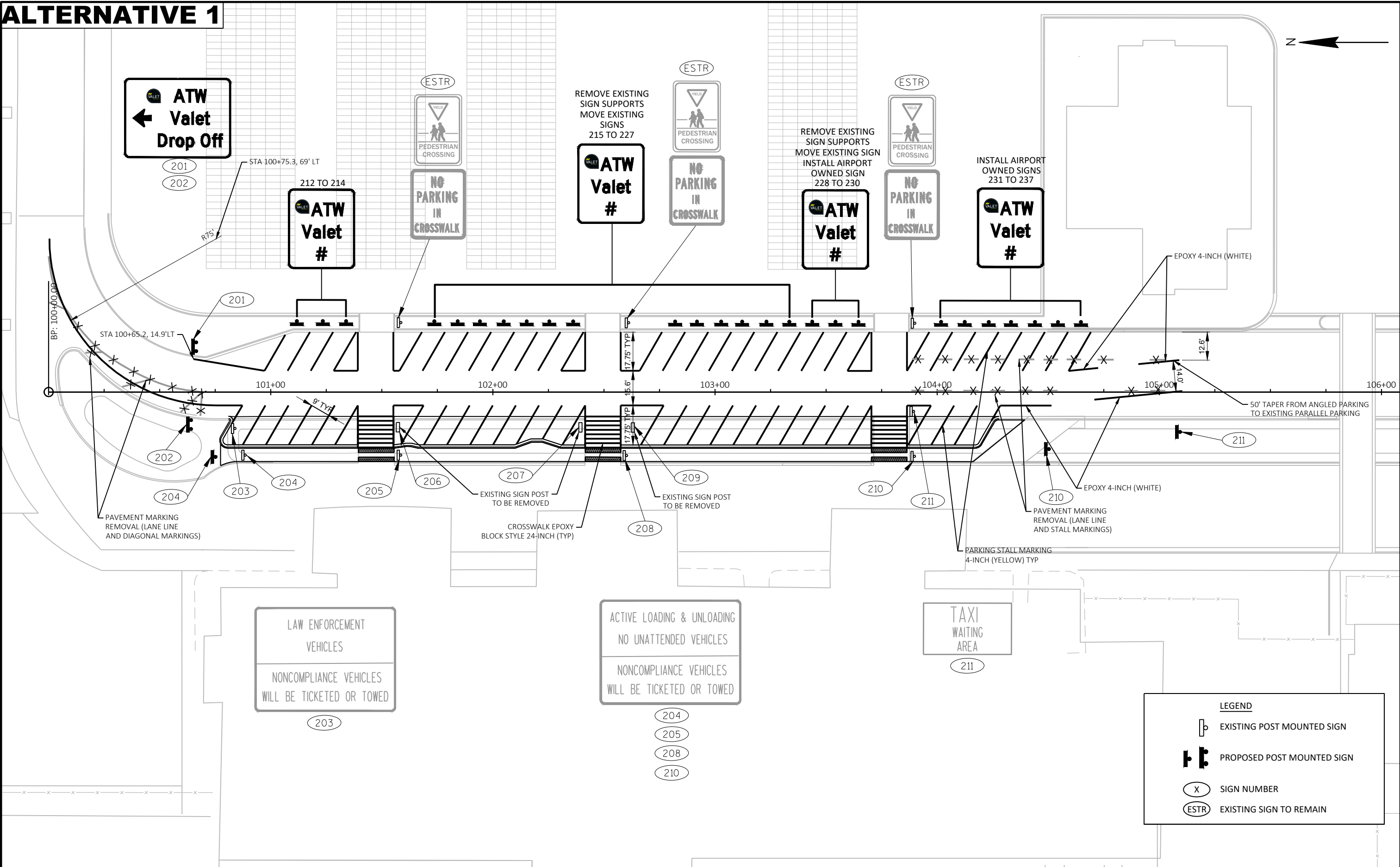
ALTERNATIVE 3



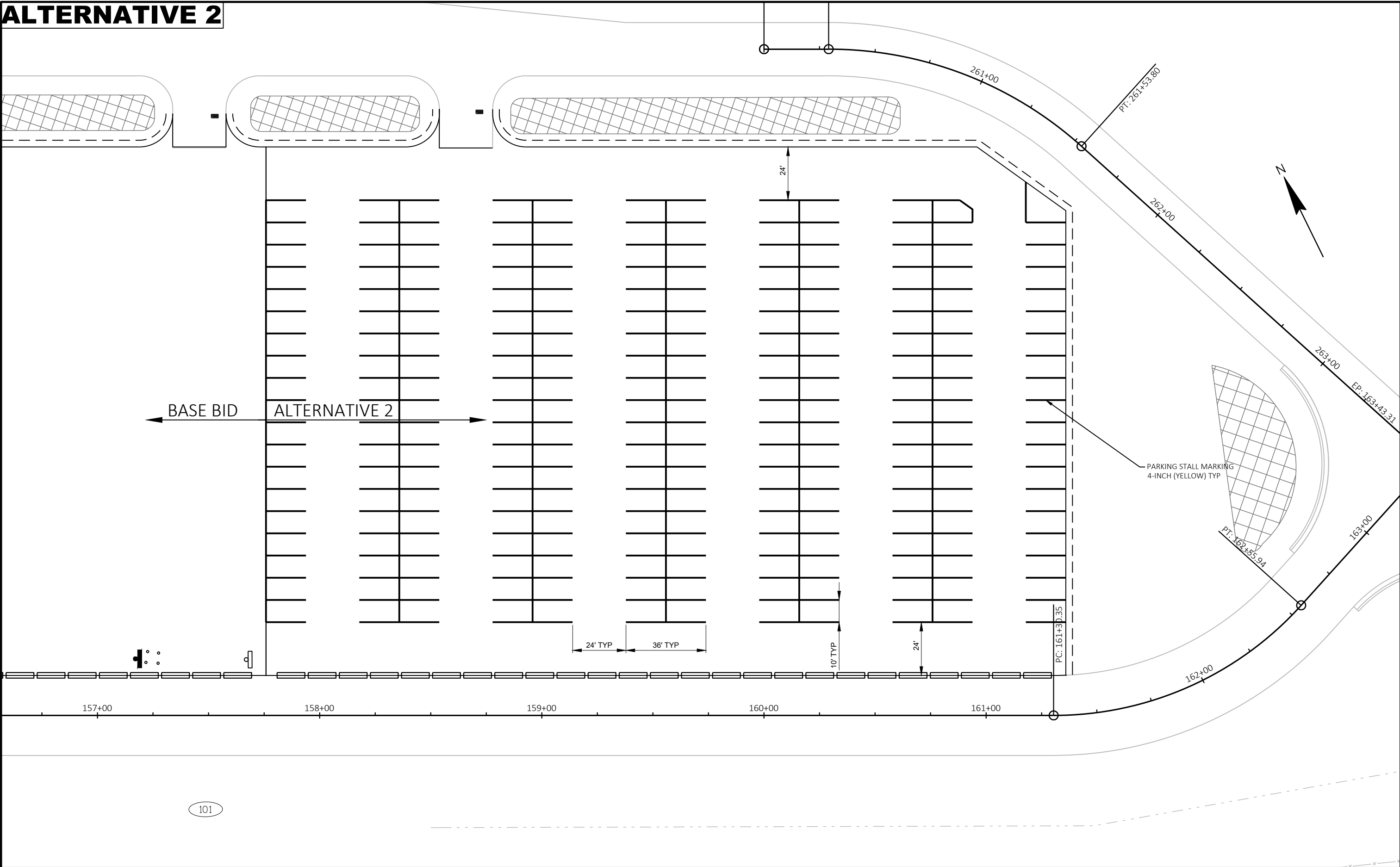
BASE BID



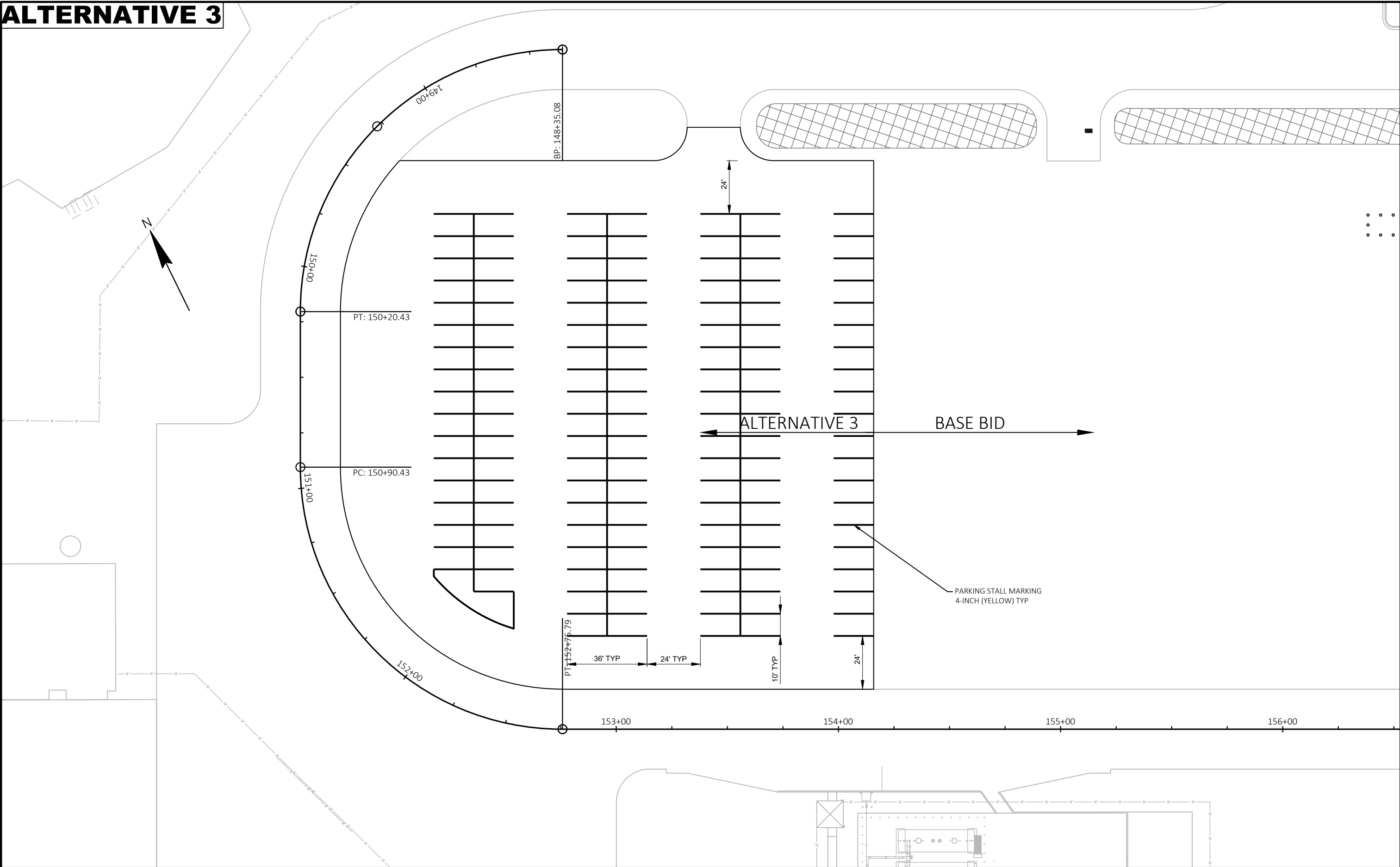
ALTERNATIVE 1



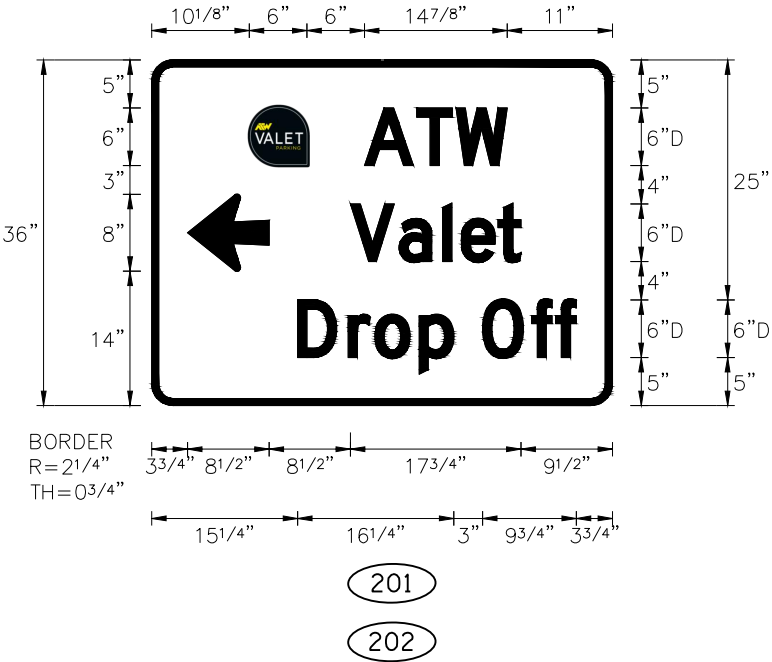
ALTERNATIVE 2



ALTERNATIVE 3



- NOTES:
- ALL SIGNS ARE TYPE II - TYPE H REFLECTIVE. REFERENCE WISDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
 - COLOR:
BACKGROUND - BLUE
MESSAGE - WHITE
 - MESSAGE SERIES AS NOTED.
 - ARROWS AS PER STANDARD PLATE A1-2.



LEGEND:

- EXISTING LIGHTING UNIT
- NEW LIGHTING UNIT
- NEW FLOODLIGHT
- EXISTING HANDHOLE
- NEW CONCRETE HANDHOLE (WITH SYSTEM INDICATED)
C = COMMUNICATIONS
E = ELECTRIC
F = FIBER OPTIC
- EXISTING UNDERGROUND CONDUIT
- FO

EXISTING UNDERGROUND FIBER OPTIC DUCTS
- NEW CONDUCTORS IN SCH. 40 NONMETALLIC (PVC)
CONDUIT, AS NOTED
- MDP-XX

CIRCUIT NUMBER(S) FOR LUMINAIRE(S) ON LIGHTING
UNIT.

KEYED NOTES:

- 1

EXACT LOCATION OF HANDHOLE TO BE VERIFIED IN THE FIELD AND APPROVED BY THE
AIRPORT. HANDHOLE SHALL BE LOCATED TO MINIMIZE POTENTIAL DAMAGE AND NOT BE
SUBJECT TO EXCESSIVE FLOODING.
- 2

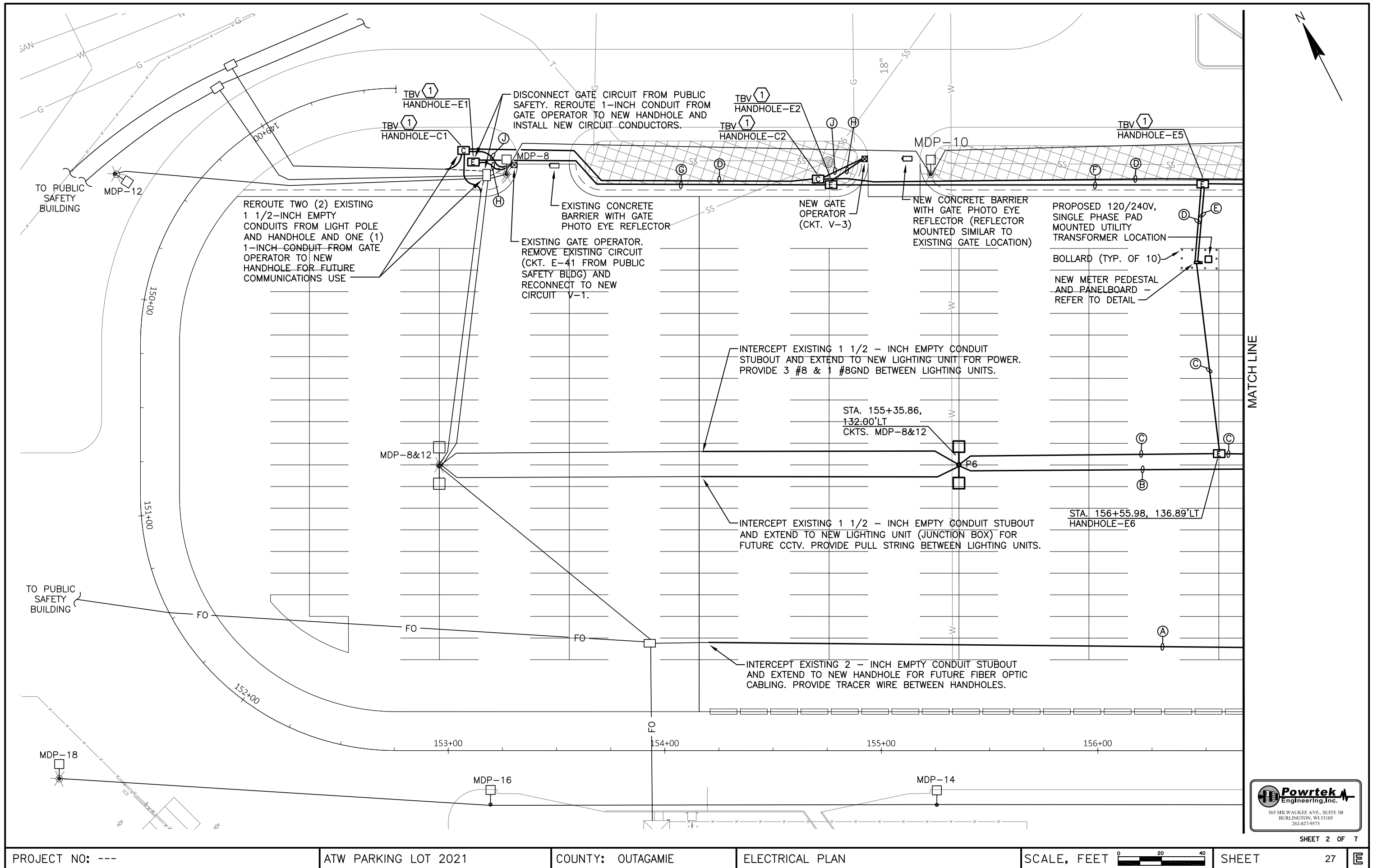
HANDHOLE INSTALLED AS PART OF BASE BID. CONDUCTORS FOR GATE CONNECTION
SHALL BE LOOPED IN HANDHOLE FOR FUTURE EXTENSION AND LEAVE UN-TERMINATED
AT EACH END.

GENERAL NOTES:

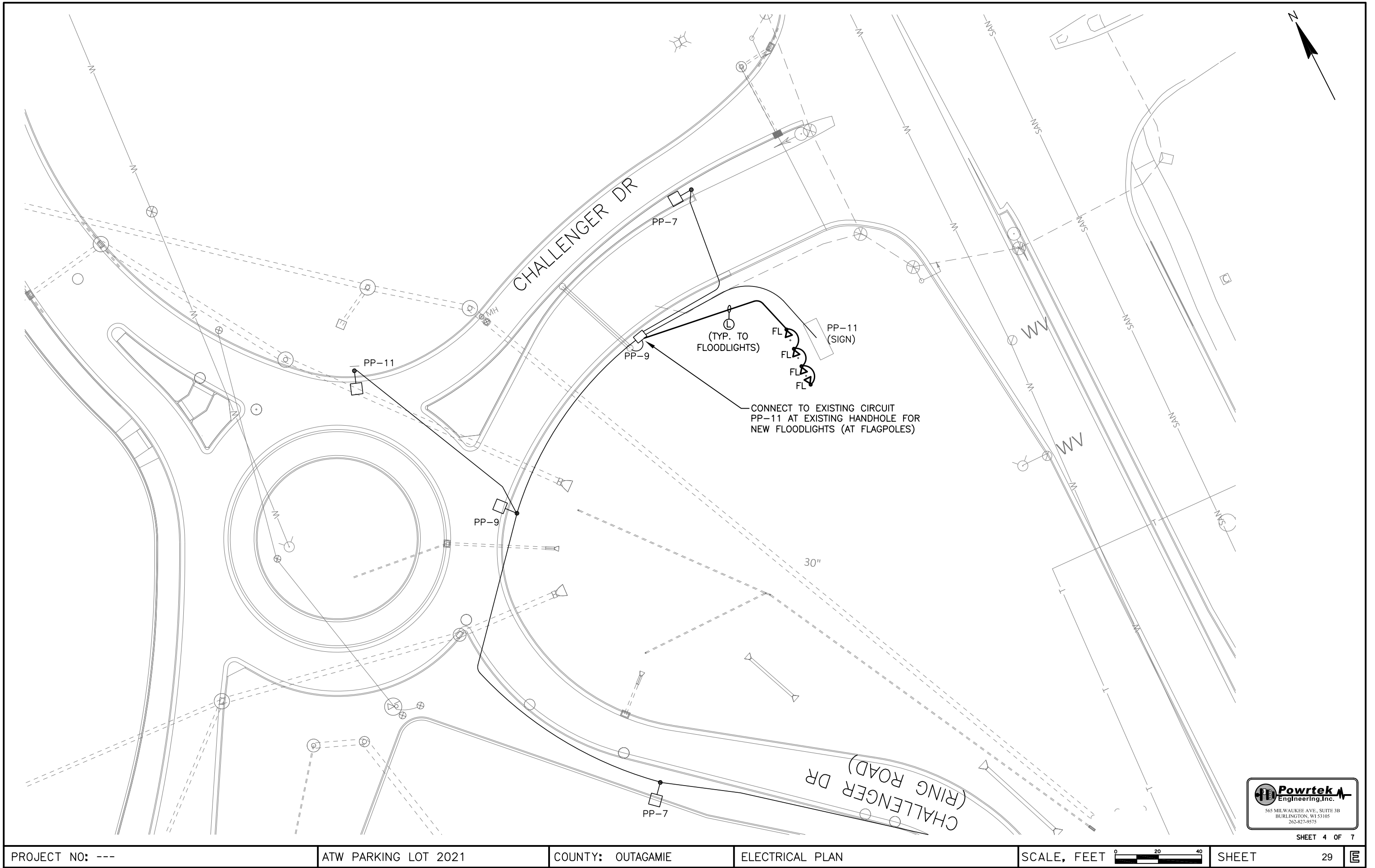
1. LIGHT LINES DENOTE EXISTING. DARK LINES DENOTE NEW.
2. CONTRACTOR TO VERIFY SITE CONDITIONS AND INCLUDE ALL NECESSARY WORK
IN BID.
3. EXISTING (AND NEW) LIGHTING CIRCUITS ARE 277V, WITH CIRCUITS SHARING A
NEUTRAL CONDUCTOR. POWER SOURCE (PANELS) ARE LOCATED IN EXIT PLAZA
BUILDING (TO THE NORTH OF PLAN AREA).
4. ORIENT LUMINAIRES AS INDICATED ON THE PLANS.
5. LIGHTING UNIT/LUMINAIRE DESIGNATION SHALL BE AS INDICATED – REFER TO
LIGHT FIXTURE SCHEDULE AND SPECIFICATIONS.
6. NEW CONDUCTORS SHALL BE TYPE RHW/USE (XLP). ALL CONDUCTORS
(INCLUDING GROUND) SHALL BE INSULATED.
7. EACH LUMINAIRE AT A MULTI-LUMINAIRE LIGHTING UNIT SHALL EACH BE ON A
SEPARATE CIRCUIT.
8. REFER TO LIMITS OF BASE BID AND ALTERNATE BIDS ON CIVIL PLANS.
9. THE EXISTING CIRCUIT FROM PUBLIC SAFETY BUILDING TO GATE SHALL BE
DISCONNECTED AT THE BUILDING AND HANDHOLE (NEAR GATE) AND LEFT AS
SPARE CONDUCTORS. PROVIDE IDENTIFICATION ON EACH END TO INDICATE
TERMINATION LOCATION. TURN OFF CB IN PANEL E1 AND RE-LABEL AS A
SPARE.
10. DIRECTIONAL BORE CONDUIT(S) UNDER EXISTING PAVEMENT WHERE NEEDED.
INCLUDE ALL NECESSARY SURFACE RESTORATION FOR CONDUIT INSTALLATION.
11. GATE CIRCUITS ARE CONNECTED WITH INDIVIDUAL NEUTRAL CONDUCTOR (I.E. NO
SHARED NEUTRALS).
12. NO SPLICES ALLOWED IN HANDHOLES UNLESS NECESSARY AND APPROVED BY
AIRPORT. LOOP 3- FEET OF CABLE IN HANDHOLES.
13. CABLES SHALL BE APPROPRIATELY BUNDLED AND IDENTIFIED WITH CIRCUIT TAGS
(PER SPECS) AT ALL ACCESSIBLE LOCATIONS.

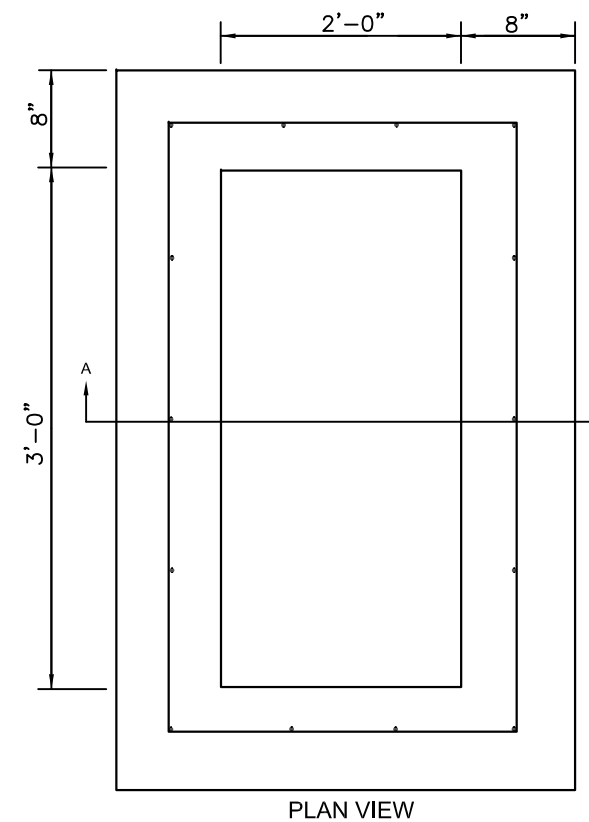
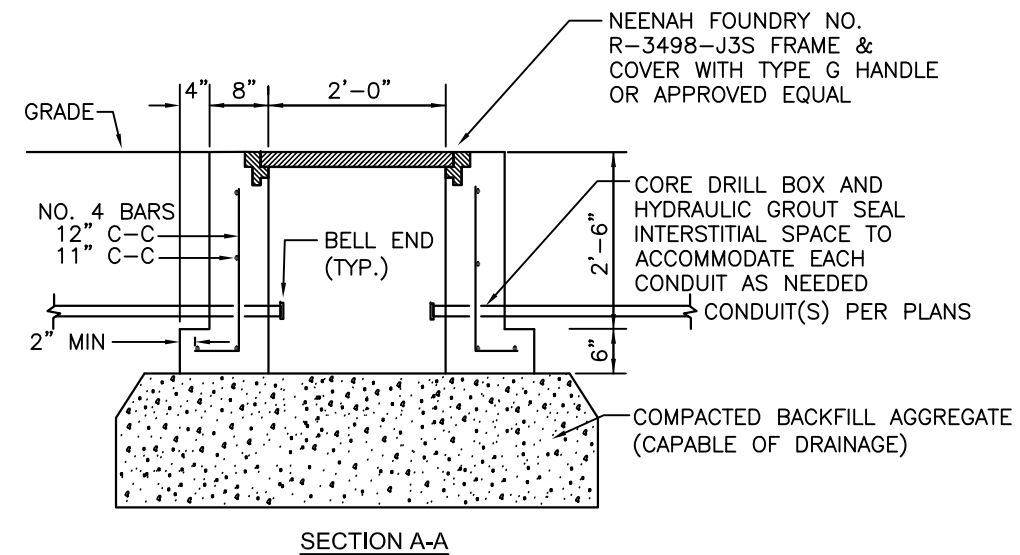
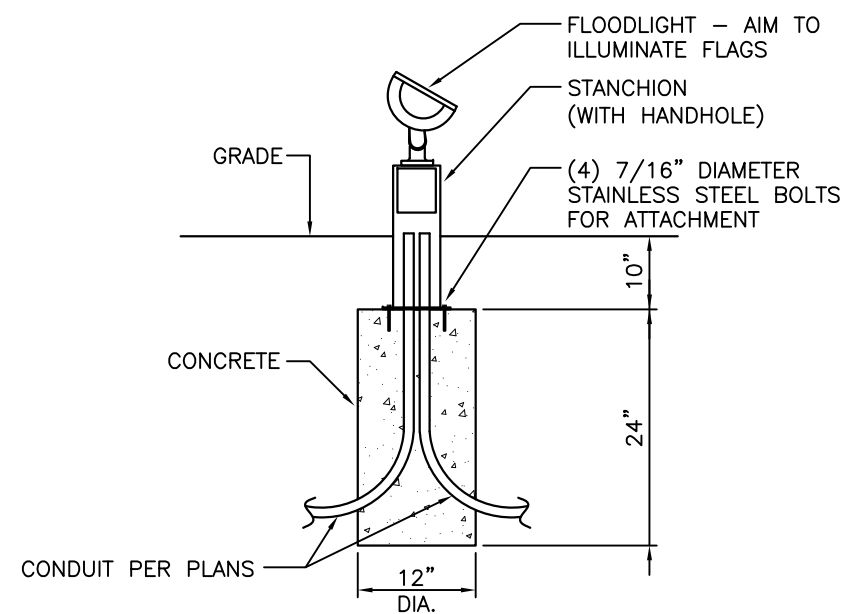
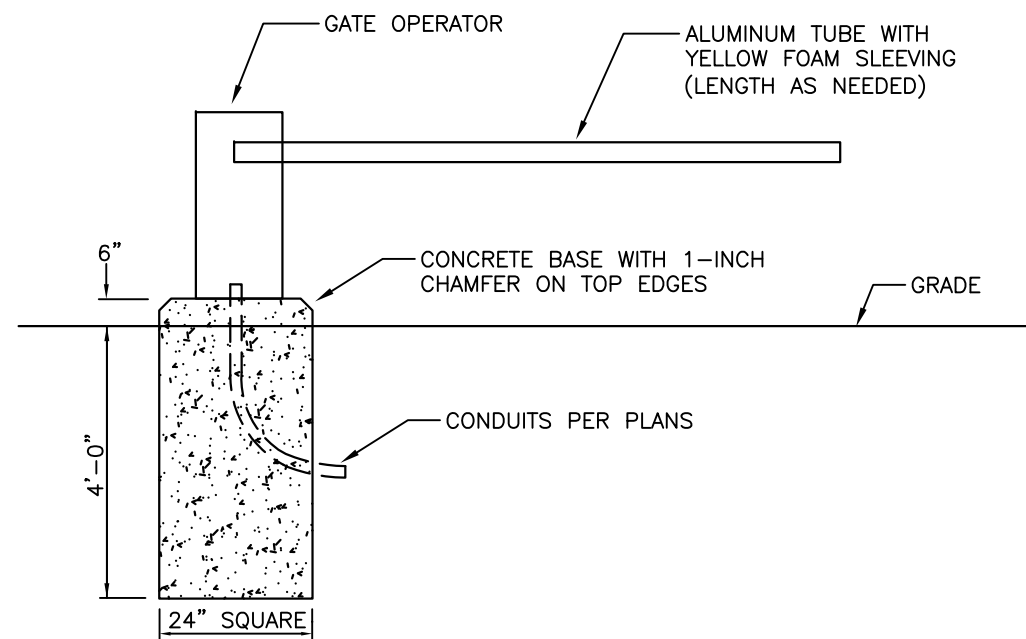
CONDUIT/CABLE SCHEDULE		
ID	CONDUIT	CABLE/CONDUCTORS
Ⓐ	2"	#10 ORANGE TRACER (FUTURE SECURITY FO)
Ⓑ	1"	PULL STRING (FUTURE CCTV FO)
Ⓒ	1"	PULL STRING (FUTURE CCTV PWR)
Ⓓ	2"	PULL STRING
Ⓔ	2"	8#8 & 1#8 GND.
Ⓕ	2"	4#8 & 1#8 GND.
Ⓖ	2"	2#8 & 1#8 GND.
Ⓗ	1"	2#8 & 1#8 GND.
Ⓙ	1"	PULL STRING
Ⓚ	1 1/2"	PULL STRING (FUTURE CCTV FO)
Ⓛ	1"	2#10 & 1#10 GND.



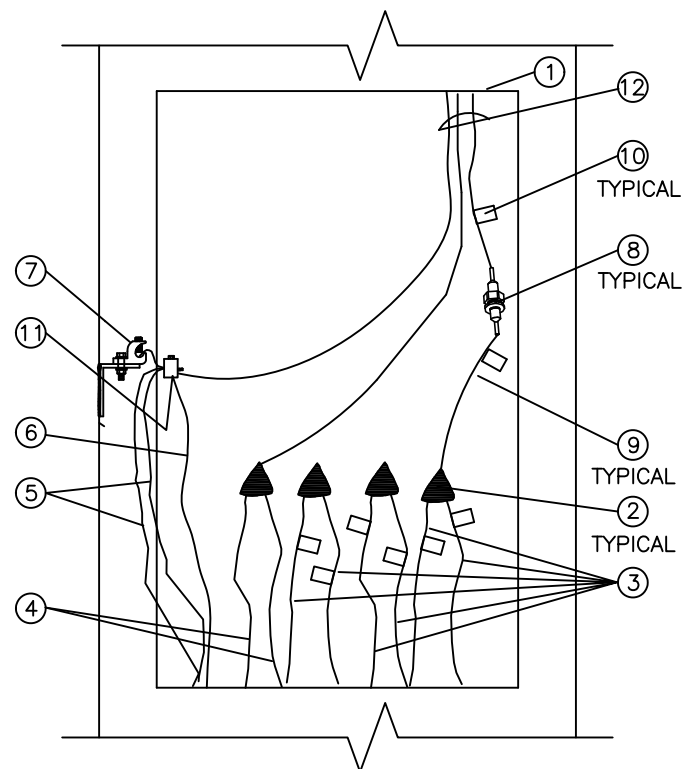








- NOTES:**
1. CENTER THE STRUCTURE ON THE DUCTS. THE NUMBER OF DUCTS FOR A SPECIFIC LOCATION IS AS SHOWN ON THE ELECTRICAL LAYOUT PLAN.
 2. THE PULL BOX SHALL BE MADE OF CONCRETE HAVING 3,500 PSI IN 28 DAYS AS SPECIFIED IN SECTION P-610 OF THE STANDARD SPECIFICATIONS FOR AIRPORT CONSTRUCTION AND STEEL REBAR AS DETAILED.
 3. INSTALL INTERNAL DIVIDER WHERE INDICATED ON PLANS.



- ① HANDHOLE AND COVER
- ② INSULATED SPLICE (PER SPEC)
- ③ UNGROUNDED CONDUCTORS
- ④ GROUNDED CONDUCTORS
- ⑤ SYSTEM GROUNDING CONDUCTORS
- ⑥ #6 CONDUCTOR TO GROUND ROD
- ⑦ HANDHOLE GROUNDING LUG
- ⑧ INLINE FUSE ASSEMBLY, WITH WEATHERPROOF BOOTS AND 5A KTK FUSE
- ⑨ 12" PIGTAIL BETWEEN SPLICE AND FUSE ASSEMBLY
- ⑩ IDENTIFICATION TAG
- ⑪ REVERSIBLE PRESSURE OR COMPRESSION GROUNDING CONNECTION (NOT INSULATED)
- ⑫ 3#12 RHW/USE TO LUMINAIRE(S)

NOTE:

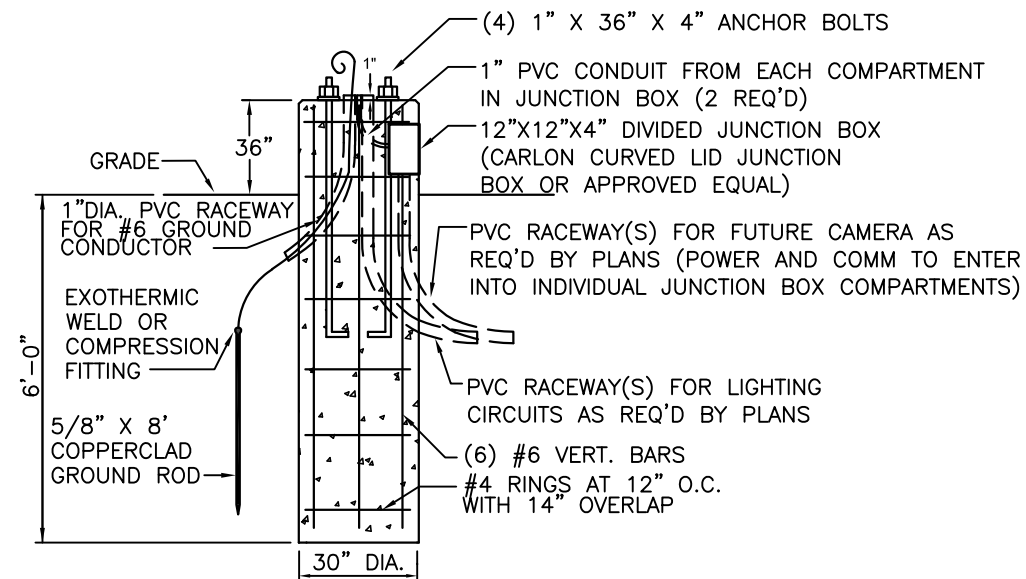
INSTALL WIRING SO THAT SPICES AND FUSING EXTEND 12" OUTSIDE OF POLE HAND HOLE.

POLE WIRING DETAIL NO SCALE

LIGHTING UNIT SCHEDULE					
DES.	DESCRIPTION	VOLT	MFR.	CAT. NO.	SEE NOTE
P6	TWIN LIGHTING UNIT: 35-FT POLE, TYPE 5WQ DIST. 59,579LUMENS EA, 419W EA, 4000K	120-277	COOPER	(2) GLEON-SA0-B-740-U-5WQ-BZ	1
			COOPER	RTA-35-C-8-B-4-BZ(COOPER BRONZE)-VD-XHH	
FL	FLOODLIGHT ON STANCHION 3877LUMENS, 46W, 4000K	120-277	COOPER	VFS-K-B40-3-LED-E1-TS-BZ & VFS-4S-BZ & SM-BZ	2

LIGHTING FIXTURE SCHEDULE NOTES:

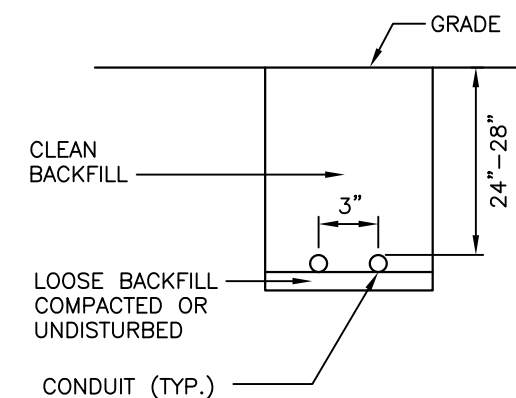
- FOR POLE PROVIDE MATCHING COLOR SPUN ALUMINUM 2-PIECE FULL BASE COVER, INTERNAL DUMB-BELL STYLE VIBRATION DAMPERS, DRILLED FOR LUMINAIRES AND EXTRA HANDHOLE 5-FEET FROM TOP (90DEG FROM LUMINAIRES).
- LOCATE CENTERED BETWEEN FLAG POLES OR 4.5' AWAY IN A LINE PER PLANS. AIM UPWARD TO ILLUMINATE FLAGS.



NOTES

- PROVIDE 1" CHAMFER AROUND TOP EDGE AND FORM TOP 48" OF CONCRETE BASES. REMOVE FORMS AFTER CONCRETE IS SET.
- PROVIDE 3/4" PREFORMED FILLER BETWEEN CONCRETE BASE AND ADJACENT CONCRETE SLABS AS APPROVED BY THE ENGINEER.
- CENTER CONDUITS AND ANCHOR BOLTS ON CONCRETE BASE.

LIGHTING UNIT CONCRETE BASE DETAIL WITH JUNCTION BOX NOT TO SCALE



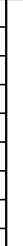
NOTE:

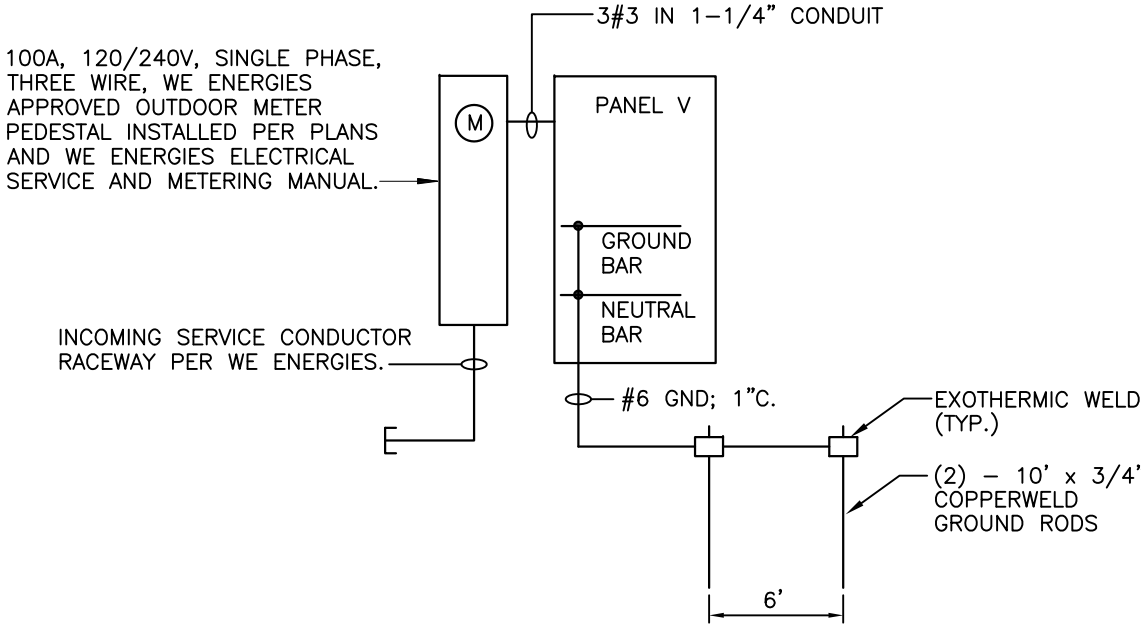
- CONDUIT SHALL BE TRENCHED OR DIRECTIONAL BORED AS REQUIRED.

TRENCH DETAIL NO SCALE

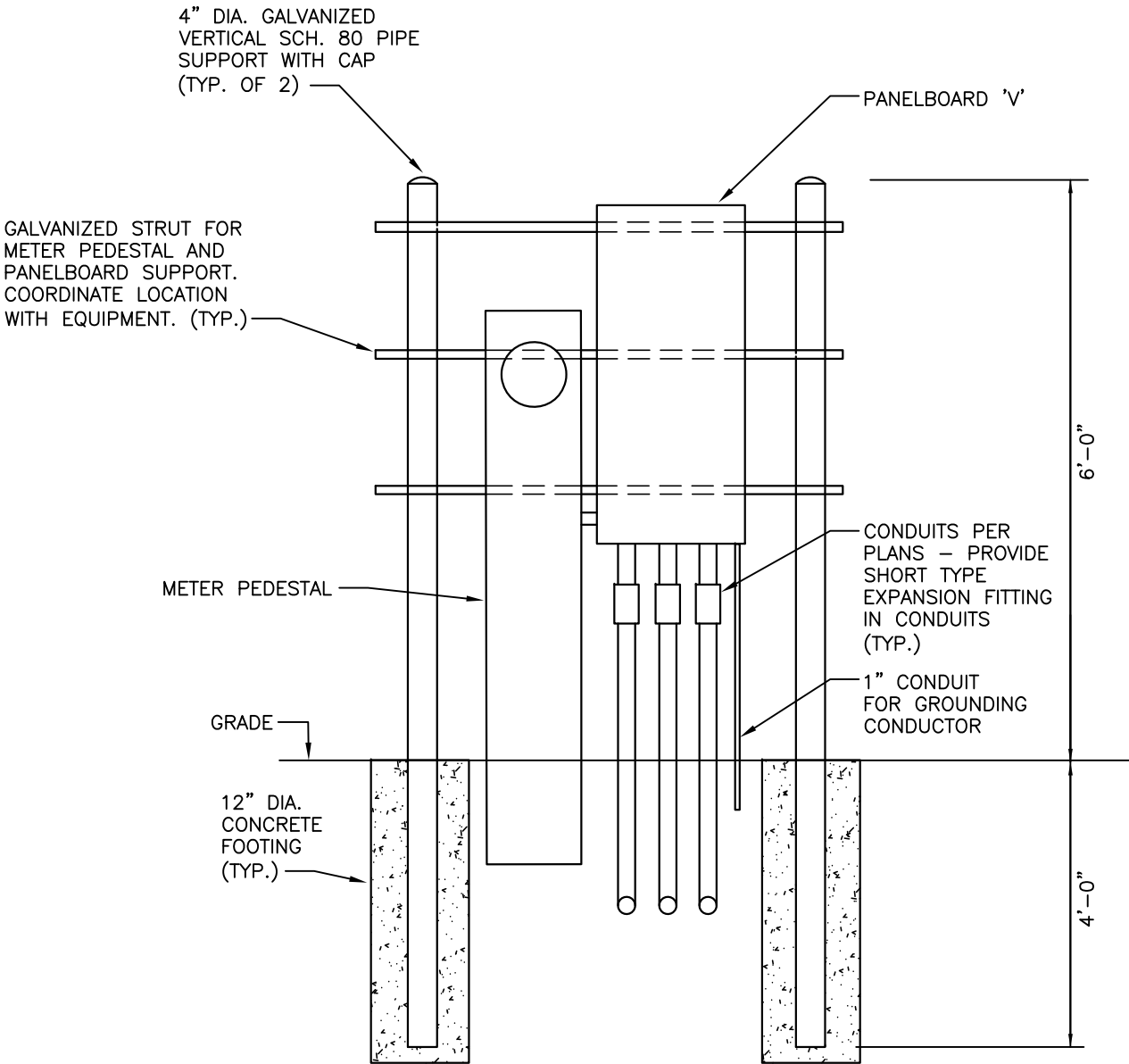


SHEET 6 OF 7

PANEL: V	BUS AMPS: 100		MAIN: 100A MCB		MOUNTING		REMARKS:				
	VOLTAGE: 120/240				SURFACE	X	NEMA 3R, 22KAIC				
	PHASE: 1										
	WIRE: 3										
CIRCUIT DESCRIPTION		AMPS		CB	CKT		CKT	CB	AMPS		CIRCUIT DESCRIPTION
		A	B						A	B	
VEHICLE GATE – FAR WEST		9.0		20	1		2	20	9.0		VEHICLE GATE – EAST
VEHICLE GATE – WEST			9.0	20	3		4	20		9.0	VEHICLE GATE – FAR EAST
SPARE		–		20	5		6	20	–		SPARE
SPARE			–	20	7		8	20		–	SPARE
SPARE		–		20	9		10	20	–		SPARE
SPARE			–	20	11		12	20		–	SPARE
					13		14				
					15		16				
					17	18					
						TOTAL		18.0	18.0	CONNECTED	



ONE-LINE DIAGRAM
NO SCALE



- NOTES
- EQUIPMENT IS SHOWN VIEWING SOUTH.
 - LOCATE SO THAT THERE IS A MINIMUM OF 4- FEET CLEARANCE IN FRONT OF EQUIPMENT AND 2- FEET CLEARANCE IN BACK OF EQUIPMENT TO PROTECTIVE BOLLARDS.

METER PEDESTAL/PANELBOARD DETAIL
NO SCALE

