

Addendum

PROJECT: PELLICANO DRIVE WIDENING/ BUILD IMPROVEMENTS
CSJ # 0924-06-534

ADDENDUM No: 3

FEDERAL PROJECT NO: CBI 2020 (432)

DATE: 10/28/19

To: General Contractors on Bidder's List
From: Camino Real Regional Mobility Authority
Distribution: General Contractors

This Addendum shall be considered as part of the Contract Documents for the above mentioned project as though it had been issued at the same time and incorporated therewith. Where provisions of the following supplementary data differ from those of the original Contract Documents, this Addendum shall govern and take precedence. Work not specifically deleted, modified, changed or altered by this Addendum shall remain in effect as a part of the Contract Documents.

Bidders are hereby notified that they shall make any necessary adjustment(s) in their estimates based on this Addendum. It will be construed that each bidder's proposal is submitted with full knowledge of all modifications and supplemental data specified herein.

No further questions will be accepted.

CHANGES TO THE PROCUREMENT SCHEDULE – CONTRACT PROPOSAL: None.

CHANGES TO THE CONTRACT SPECIFICATIONS: None.

CHANGES TO THE CONTRACT PROPOSAL:

ITEM A3.1 **SHEET 56: ADD** the following note to Item 100 of the General Notes:

"The Contractor shall coordinate directly with El Paso Electric Company for specific requirements and costs/rates associated with supporting and protecting electrical poles and lines. Supporting and protecting electrical poles and lines shall be subsidiary to this item. Contractor must also comply with El Paso Electric Company requirements for scheduling work around El Paso Electric Company facilities. Contact Ms. Sylvia Rivas (El Paso Electric Representative) at 915-351-4255".

ITEM A3.2 **SHEET 80: ADD** the following note to Item 682 of the General Notes:

"Provide aluminum pedestrian and vehicle signal heads in the following color: Federal Yellow #13538 of Federal Standard 595. Provide non-painted aluminum tubing.

Provide back plates, and the inside of visors with a flat black finish. Provide aluminum vented back plates for all traffic signal heads”.

CHANGES TO THE CONTRACT PLANS:

ITEM A3.3 **SHEET 5: ADD** the following note to Item 100 of the General Notes:

“The Contractor shall coordinate directly with El Paso Electric Company for specific requirements and costs/rates associated with supporting and protecting electrical poles and lines. Supporting and protecting electrical poles and lines shall be subsidiary to this item. Contractor must also comply with El Paso Electric Company requirements for scheduling work around El Paso Electric Company facilities. Contact Ms. Sylvia Rivas (El Paso Electric Representative) at 915-351-4255”.

ITEM A3.4 **SHEET 17: ADD** the following note to Item 682 of the General Notes:

“Provide aluminum pedestrian and vehicle signal heads in the following color: Federal Yellow #13538 of Federal Standard 595. Provide non-painted aluminum tubing. Provide back plates, and the inside of visors with a flat black finish. Provide aluminum vented back plates for all traffic signal heads”.

ITEM A3.5 **SHEET 22: REMOVE** Sheet 22 and REPLACE with revised Sheet 22-A3 (Attached).

ITEM A3.6 **SHEET 22.1-A2: REMOVE** Sheet 22.1-A2 and REPLACE with revised Sheet 22.1-A3 (Attached).

ITEM A3.7 **SHEET 40-A1: REMOVE** Sheet 40-A1 and REPLACE with revised Sheet 40-A3 (Attached).

ITEM A3.8 **SHEET 42: REMOVE** Sheet 42 and REPLACE with revised Sheet 42-A3 (Attached).

ITEM A3.9 **SHEET 67.1-A3: ADD** Sheet 67.1-A3 (Attached).

ITEM A3.10 **SHEET 67.2-A3: ADD** Sheet 67.2-A3 (Attached).

ITEM A3.11 **SHEET 68-A2: REMOVE** Sheet 68-A2 and REPLACE with revised Sheet 68-A3 (Attached).

ITEM A3.12 **SHEET 69-A2: REMOVE** Sheet 69-A2 and REPLACE with revised Sheet 69-A3 (Attached).

ITEM A3.13 **SHEET 70-A2: REMOVE** Sheet 70-A2 and REPLACE with revised Sheet 70-A3 (Attached).

ITEM A3.14 **SHEET 71-A2: REMOVE** Sheet 71-A2 and REPLACE with revised Sheet 71-A3 (Attached).

ITEM A3.15 **SHEET 86-A2: REMOVE** Sheet 86-A2 and REPLACE with revised Sheet 86-A3 (Attached).

ITEM A3.16 **SHEET 87-A2: REMOVE** Sheet 87-A2 and REPLACE with revised Sheet 87-A3 (Attached).

ITEM A3.17 **SHEET 88-A2: REMOVE** Sheet 88-A2.

ITEM A3.18 **SHEET 446.1-A3: ADD** Sheet 446.1-A3 (Attached).

END OF ADDENDUM No. 3



SUMMARY OF TRAFFIC CONTROL ITEMS														
SHEET	351	500	502	662	662	662	662	662	662	662	662	662	662	677
	6006	6001	6001	6060	6063	6074	6075	6080	6081	6088	6091	6094	6095	6001
	FLEXIBLE PAVEMENT STRUCTURE REPAIR(10")	MOBILIZATION	BARRICADES, SIGNS AND TRAFFIC HANDLING	WK ZN PAV MRK REMOV (W)4"(BRK)	WK ZN PAV MRK REMOV (W)4"(SLD)	WK ZN PAV MRK REMOV (W)18"(SLD)	WK ZN PAV MRK REMOV (W)24"(SLD)	WK ZN PAV MRK REMOV (W)(ARROW)	WK ZN PAV MRK REMOV (W)(DBL ARROW)	WK ZN PAV MRK REMOV (W)(TPL ARROW)	WK ZN PAV MRK REMOV (W)18"(YLD TRI)	WK ZN PAV MRK REMOV (Y)4"(DOT)	WK ZN PAV MRK REMOV (Y)4"(SLD)	ELIM EXT PAV MRK & MRKS (4")
	SY	LS	MO	LF	LF	LF	LF	EA	EA	EA	EA	LF	LF	LF
<u>PHASE I-A</u>		1	19											
SHEET 1 OF 3	733				1001			4					970	1127
SHEET 2 OF 3	2102				1975	396	121	9	5		8	60	3637	1164
SHEET 3 OF 3					1491			2					4303	2095
<u>PHASE I-B</u>														
SHEET 1 OF 5	135				267								783	1127
SHEET 2 OF 5	854													
SHEET 3 OF 5	596													
SHEET 4 OF 5	663													
SHEET 5 OF 5	1234													
<u>PHASE II</u>														
SHEET 1 OF 3	634			30	1231								2609	3814
SHEET 2 OF 3	1100				1901		13	2	2				3878	2298
SHEET 3 OF 3	30			250	1440	151	92	8	1			39	1900	270
<u>PHASE III</u>														
SHEET 1 OF 1														
<u>PHASE IV</u>														
SHEET 1 OF 1														
<u>PHASE V</u>														
SHEET 1 OF 2	111			270	997			3					1058	
SHEET 2 OF 2				2940	1183	179	87	3					3328	
<u>PHASE VI</u>														
SHEET 1 OF 2				160	378								1184	
SHEET 2 OF 2	461			80	820			4				27	4316	
<u>PHASE VII</u>														
SHEET 1 OF 2					630		22	5	1			69	900	1080
SHEET 2 OF 2					671			3	1			39	2847	
<u>PHASE VIII</u>														
SHEET 1 OF 1						100		3	1			36	900	
<u>PHASE IX</u>														
SHEET 1 OF 1				2570	200								1035	
<u>PHASE X</u>														
SHEET 1 OF 2					842	180			1			24	420	
SHEET 2 OF 2	546				1197		25	6	2			48	5985	2571
<u>PHASE XI</u>														
SHEET 1 OF 5					2366		29	5	1			39	5851	
SHEET 2 OF 5	275				1281			2	1				6230	
SHEET 3 OF 5	312				795								8352	
SHEET 4 OF 5	544				249							177	8255	
SHEET 5 OF 5	286				875		14			1			4749	
PROJECT TOTALS	10616	1	19	6300	21790	1006	403	59	16	1	8	558	73490	15546



REVISIONS			
NO.	DATE	DESCRIPTION	BY
	10/25/19	ADDENDUM NO. 3	CEA

TEXAS REGISTERED ENGINEERING FIRM F-4564
4712 Woodrow Bean, Ste. F El Paso, TX 79924
915.544.5232 | www.ceagroup.net

CAMINO REAL
REGIONAL MOBILITY
AUTHORITY
PELLICANO DR.
WIDENING/BUILD


SUMMARY SHEET

SHEET 2 OF 14


FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	CEI 2020 (432)	22-A3
STATE	DIST.	COUNTY
TEXAS	ELP	EL PASO
CONTR.	SECT.	JOB
0924	06	534
		HIGHWAY NO.
		CS

SHEET	SUMMARY OF TRAFFIC CONTROL ITEMS								
	305	512	512	512	512	512	512	512	512
	6008	6008	6009	6010	6033	6034	6056	6057	6058
	SALV. HAUL & STKPL RCL APH PV (0" TO 4")	PORT CTB (FUR & INST)(F-SHAPE)(TY 4)	PORT CTB (FUR & INST)(LOW PROF)(TY 1)	PORT CTB (FUR & INST)(LOW PROF)(TY 2)	PORT CTB (MOVE)(LOW PROF)(TY 1)	PORT CTB (MOVE)(LOW PROF)(TY 2)	PORT CTB (REMOVE)(F-SHAPE)(TY 4)	PORT CTB (REMOVE)(LOW PROF)(TY 1)	PORT CTB (REMOVE)(LOW PROF)(TY 2)
	SY	LF	LF	LF	LF	LF	LF	LF	LF
PHASE I-A									
SHEET 1 OF 3									
SHEET 2 OF 3	1534	900					900		
SHEET 3 OF 3									
PHASE I-B									
SHEET 1 OF 5	135								
SHEET 2 OF 5	856								
SHEET 3 OF 5	596								
SHEET 4 OF 5	663								
SHEET 5 OF 5	1234								
PHASE II									
SHEET 1 OF 3	634		500	40	500	40			
SHEET 2 OF 3	1100								
SHEET 3 OF 3	1044								
PHASE III									
SHEET 1 OF 1									
PHASE IV									
SHEET 1 OF 1									
PHASE V									
SHEET 1 OF 2			200	20	700	60			
SHEET 2 OF 2									
PHASE VI									
SHEET 1 OF 2					560	40			20
SHEET 2 OF 2	461								
PHASE VII									
SHEET 1 OF 2									
SHEET 2 OF 2									
PHASE VIII									
SHEET 1 OF 1									
PHASE IX									
SHEET 1 OF 1	111		360		140			1060	40
PHASE X									
SHEET 1 OF 2	285								
SHEET 2 OF 2	546								
PHASE XI									
SHEET 1 OF 5									
SHEET 2 OF 5	275								
SHEET 3 OF 5	312								
SHEET 4 OF 5	544								
SHEET 5 OF 5	286								
PROJECT TOTALS	10616	900	1060	60	1900	140	900	1060	60

REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	10/18/19	ADDENDUM NO. 2	CEA
2	10/25/19	ADDENDUM NO. 3	CEA



TEXAS REGISTERED ENGINEERING FIRM F-4564
4712 Woodrow Bean, Ste. F El Paso, TX 79924
915.544.5232 | www.ceagroup.net



CAMINO REAL
REGIONAL MOBILITY
AUTHORITY
**PELLICANO DR.
WIDENING/BUILD**

SUMMARY SHEET

FED. RD. DIV. NO.6STATETEXAS

FEDERAL AID PROJECT NO. CBI 2020 (432)

SHEET NO. 22.1-A3

CONTRACT NO. 0924

SECTION 06

JOB 534

HIGHWAY NO. CS

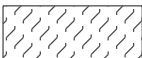
SEQUENCE OF WORK



PHASE I - STAGE A
30 WORKING DAYS

THE SOUTH SIDE OF THE PELLICANO DRIVE AND MISSION RIDGE BOULEVARD INTERSECTION.

IMPROVEMENTS IN THIS PHASE INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
- ROADWAY.
- DRAINAGE.
- UTILITIES.
- ILLUMINATION.
- AESTHETICS AND IRRIGATION.

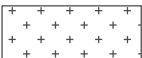


PHASE V
34 WORKING DAYS

PELLICANO DRIVE EASTBOUND FROM RIGHT TURN ONLY LANE TO JOE BATTLE BOULEVARD (SL 375) TO THE CENTER OF THE GAS STATION DRIVEWAY.

IMPROVEMENTS IN THIS PHASE INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
- ROADWAY.
- DRAINAGE.
- UTILITIES.
- ILLUMINATION.
- AESTHETICS AND IRRIGATION.

ACCESS TO THE GAS STATION DRIVEWAY SHALL BE MAINTAIN AT ALL TIMES.



PHASE X

43 WORKING DAYS

PELLICANO DRIVE WESTBOUND, FROM EAST OF THE SUN FIRE BOULEVARD INTERSECTION TO EAST OF MARFA PLACE INTERSECTION.

IMPROVEMENTS IN THIS PHASE INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
- ROADWAY.
- FULL MEDIAN.
- DRAINAGE.
- UTILITIES.
- ILLUMINATION.
- AESTHETICS AND IRRIGATION.
PHASE X MAY BE CONSTRUCTED CONCURRENTLY WITH PHASES VIII AND IX.



PHASE I - STAGE B
231 WORKING DAYS

PELLICANO DRIVE WESTBOUND FROM EAST OF MARFA PLACE INTERSECTION TO THE INTERSECTION OF DARRINGTON ROAD (BERRYVILLE STREET).

IMPROVEMENTS IN THIS PHASE INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
- ROADWAY.
- NORTHERN SIDE OF MEDIAN
- DRAINAGE.
- UTILITIES.
- ILLUMINATION.
- AESTHETICS AND IRRIGATION.

IMPROVEMENTS RELATED TO RETENTION BASINS A, B AND C SHALL BE INCLUDED IN THIS PHASE.



PHASE VI

54 WORKING DAYS

PELLICANO DRIVE WESTBOUND, FROM THE RIGHT TURN ONLY LANE TO THE JOE BATTLE BOULEVARD (SL 375) TO WEST OF THE SUN FIRE BOULEVARD INTERSECTION.

IMPROVEMENTS IN THIS PHASE INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
- ROADWAY.
- DRAINAGE.
- UTILITIES.
- ILLUMINATION.
- AESTHETICS AND IRRIGATION.



PHASE VII

13 WORKING DAYS

THE NORTHWEST QUADRANT OF THE PELLICANO DRIVE AND SUN FIRE BOULEVARD INTERSECTION.

IMPROVEMENTS IN THIS PHASE INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
- ROADWAY.
- DRAINAGE.
- UTILITIES.
- ILLUMINATION.
- AESTHETICS AND IRRIGATION.



PHASE VIII

14 WORKING DAYS

THE NORTHEAST QUADRANT OF THE PELLICANO DRIVE AND SUN FIRE BOULEVARD INTERSECTION.

IMPROVEMENTS IN THIS PHASE INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
- ROADWAY.
- FULL MEDIAN.
- DRAINAGE.
- UTILITIES.
- ILLUMINATION.
- AESTHETICS AND IRRIGATION.



PHASE IX

20 WORKING DAYS

PELLICANO DRIVE CENTER LANES AND MEDIAN, FROM THE EAST OF JOE BATTLE BOULEVARD (SL 375) TO THE EAST OF THE GAS STATION DRIVEWAY.

IMPROVEMENTS IN THIS PHASE INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
- ROADWAY.
- DRAINAGE.
- UTILITIES.
- ILLUMINATION.
- AESTHETICS AND IRRIGATION.



PHASE XI

168 WORKING DAYS

PELLICANO DRIVE EASTBOUND FROM EAST OF MISSION RIDGE BOULEVARD INTERSECTION TO THE INTERSECTION OF DARRINGTON ROAD (BERRYVILLE STREET).

IMPROVEMENTS IN THIS PHASE INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
- ROADWAY.
- SOUTHERN SIDE OF MEDIAN.
- DRAINAGE.
- UTILITIES.
- ILLUMINATION.
- AESTHETICS AND IRRIGATION.

CONSTRUCTION SEQUENCE PHASE GROUPS:

CONSTRUCTION PHASE GROUPS ARE AS INDICATED BELOW:

GROUP 1 (231 WORKING DAYS):
SHALL INCLUDE PHASE I-B.

GROUP 2 (168 WORKING DAYS):
SHALL INCLUDE PHASE XI.

GROUP 3 (97 WORKING DAYS):
SHALL INCLUDE PHASES I-A, II, III, IV, AND V.

GROUP 4 (97 WORKING DAYS):
SHALL INCLUDE PHASES VI, VII, VIII, IX AND X.

CONSTRUCTION PHASE GROUP SEQUENCING/RESTRICTIONS:

GROUP 1:
-PROJECT SHALL BEGIN WITH CONSTRUCTION PHASE GROUP 1.

GROUP 2:
-CONSTRUCTION PHASE GROUP 2 SHALL BEGIN UPON COMPLETION OF CONSTRUCTION PHASE GROUP 1.

GROUP 3:
- CONSTRUCTION PHASE GROUP 3 SHALL BEGIN UPON CRRMA ACCEPTANCE OF THE MISSION RIDGE BOULEVARD PHASE II SANITARY SEWER LINE (ANTICIPATED JUNE 19, 2020), AND CAN RUN CONCURRENT WITH CONSTRUCTION PHASE GROUPS 1 AND/OR 2.

- PHASE I-A MAY BE CONSTRUCTED CONCURRENT WITH PHASE II, BUT MUST MAINTAIN ACCESS TO MISSION RIDGE BOULEVARD AT ALL TIMES.

- PHASE III MAY BE CONSTRUCTED CONCURRENTLY WITH PHASE II.

- PHASE IV MAY BE CONSTRUCTED CONCURRENTLY WITH PHASE II ONLY UPON COMPLETION OF PHASE III.

- PHASE V MAY BE CONSTRUCTED CONCURRENTLY WITH PHASE II, BUT MUST MAINTAIN DRIVEWAY ACCESS AT GAS STATION AT ALL TIMES.

GROUP 4:
- CONSTRUCTION PHASE GROUP 4 SHALL NOT BEGIN UNTIL THE COMPLETION OF CONSTRUCTION PHASE GROUP 3.

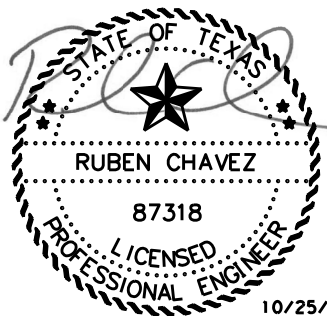
- PHASES VII AND VIII MAY BE CONSTRUCTED CONCURRENTLY ONLY IF THE CONSTRUCTION PERIOD FALLS WITHIN THE SID SUMMER INTERSESSION (JUNE THROUGH JULY). FURTHER COORDINATION WITH OWNER AND SID WILL BE REQUIRED PRIOR TO COMMENCEMENT OF THIS PHASE SEQUENCE ACTIVITY.

- PHASES VII AND VIII MAY BE CONSTRUCTED CONCURRENTLY WITH EITHER PHASE VI OR X, BUT MUST BE COMPLETED WITHIN WORKING DAYS SHOWN TO OPEN TO TRAFFIC.

- PHASE IX MAY BE CONSTRUCTED CONCURRENTLY WITHIN PHASE X, BUT SHALL NOT BEGIN UNTIL PHASES V AND VI ARE COMPLETED.

NOTES:

1. THE TRAFFIC CONTROL PLAN SHALL BE ASSESSED WITH EXISTING FIELD CONDITIONS AT THE TIME OF CONSTRUCTION. ANY VARIATIONS TO THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER, THE CITY OF EL PASO, EL PASO COUNTY, AND/OR THE GOVERNMENT ENTITY, AS APPROPRIATE.
2. THE TRAFFIC CONTROL PLAN REFLECTS THE CONTRACTOR'S WORK AREA LIMITS TO THE INTERSECTION OF PELLICANO DRIVE AND JOE BATTLE BOULEVARD (SL 375).
3. REFER TO GENERAL NOTES FOR PROJECT PHASING MILESTONES.



TEXAS REGISTERED ENGINEERING FIRM F-4564
4712 Woodrow Bean, Ste. F El Paso, TX 79924
915.544.5232 | www.ceagroup.net



CAMINO REAL
REGIONAL MOBILITY
AUTHORITY

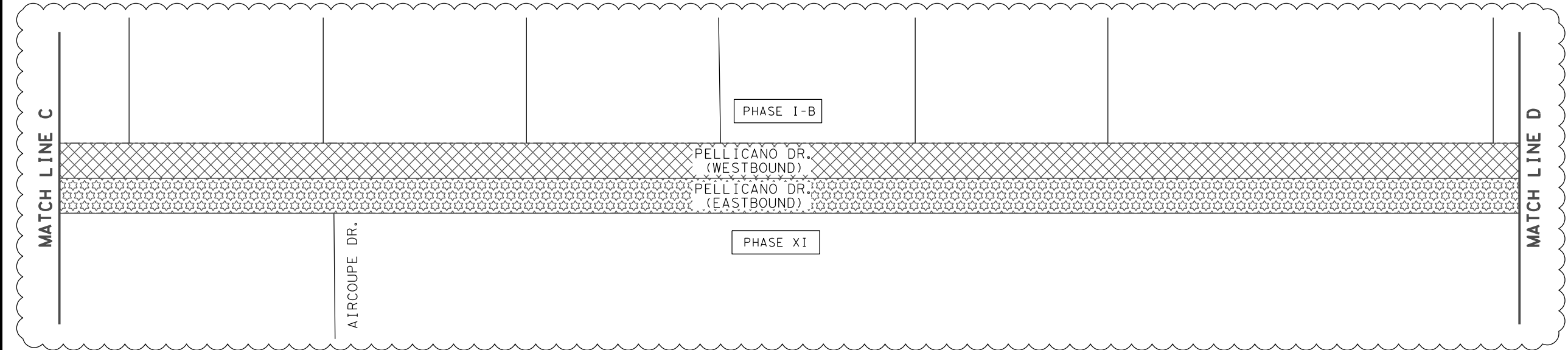
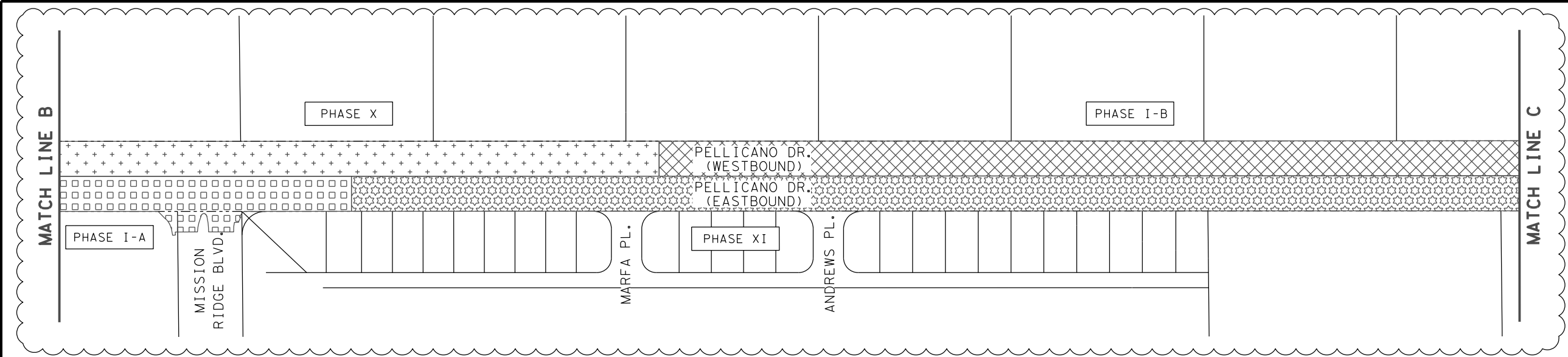
PELLICANO DR.
WIDENING/BUILD

SEQUENCE OF WORK

SHEET 1 OF 1













FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	CBI 2020 (432)		40-A3
STATE	DIST.	COUNTY	
TEXAS	ELP	EL PASO	
CONT.	SECT.	JOB	HIGHWAY NO.
0924	06	534	CS


REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	10/09/19	ADDENDUM NO. 1	CEA
2	10/25/19	ADDENDUM NO. 3	CEA

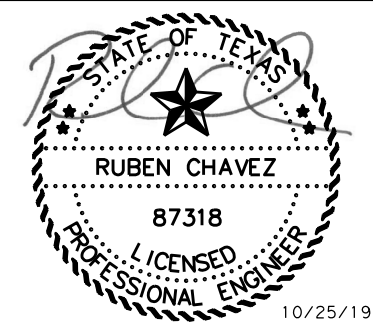


0 100' 200'
SCALE: H: 1" = 200'

LEGEND:

	PHASE I STAGE A		PHASE VI
	PHASE I STAGE B		PHASE VII
	PHASE II		PHASE VIII
	PHASE III		PHASE IX
	PHASE IV		PHASE X
	PHASE V		PHASE XI

REVISIONS			
NO.	DATE	DESCRIPTION	BY
	10/25/19	ADDENDUM NO. 3	CEA



TEXAS REGISTERED ENGINEERING FIRM F-4564
4712 Woodrow Bean, Ste. F El Paso, TX 79924
915.544.5232 | www.ceagroup.net



SHEET 2 OF 3			
FED. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	CBI 2020 (432)		42-A3
STATE	DIST.	COUNTY	
TEXAS	ELP	EL PASO	
CONT.	SECT.	JOB	HIGHWAY NO.
0924	06	534	CS

①

ROAD
CLOSED

R11-2
48"x30"

②

ROAD CLOSED
TO
THRU TRAFFIC

R11-4
60"x30"

③

MARFA PL.
DETOUR

M4-12T
48"x12"
M4-10R
48"x18"

④

MARFA PL.
DETOUR

M4-12T
48"x12"
M4-10L
48"x18"

⑤

MARFA PL.
DETOUR
AHEAD

M4-12T
48"x12"
CW20-2D
48"x48"

⑥

MARFA PL.
END
DETOUR

M4-12T
48"x12"
M4-8a
24"x18"

⑦

PELLICANO DR.
DETOUR
AHEAD

M4-12T
48"x12"
CW20-2D
48"x48"

⑧

PELLICANO DR.
END
DETOUR

M4-12T
48"x12"
M4-8a
24"x18"

⑨

PELLICANO DR.
DETOUR

M4-12T
48"x12"
M4-10R
48"x18"

⑩

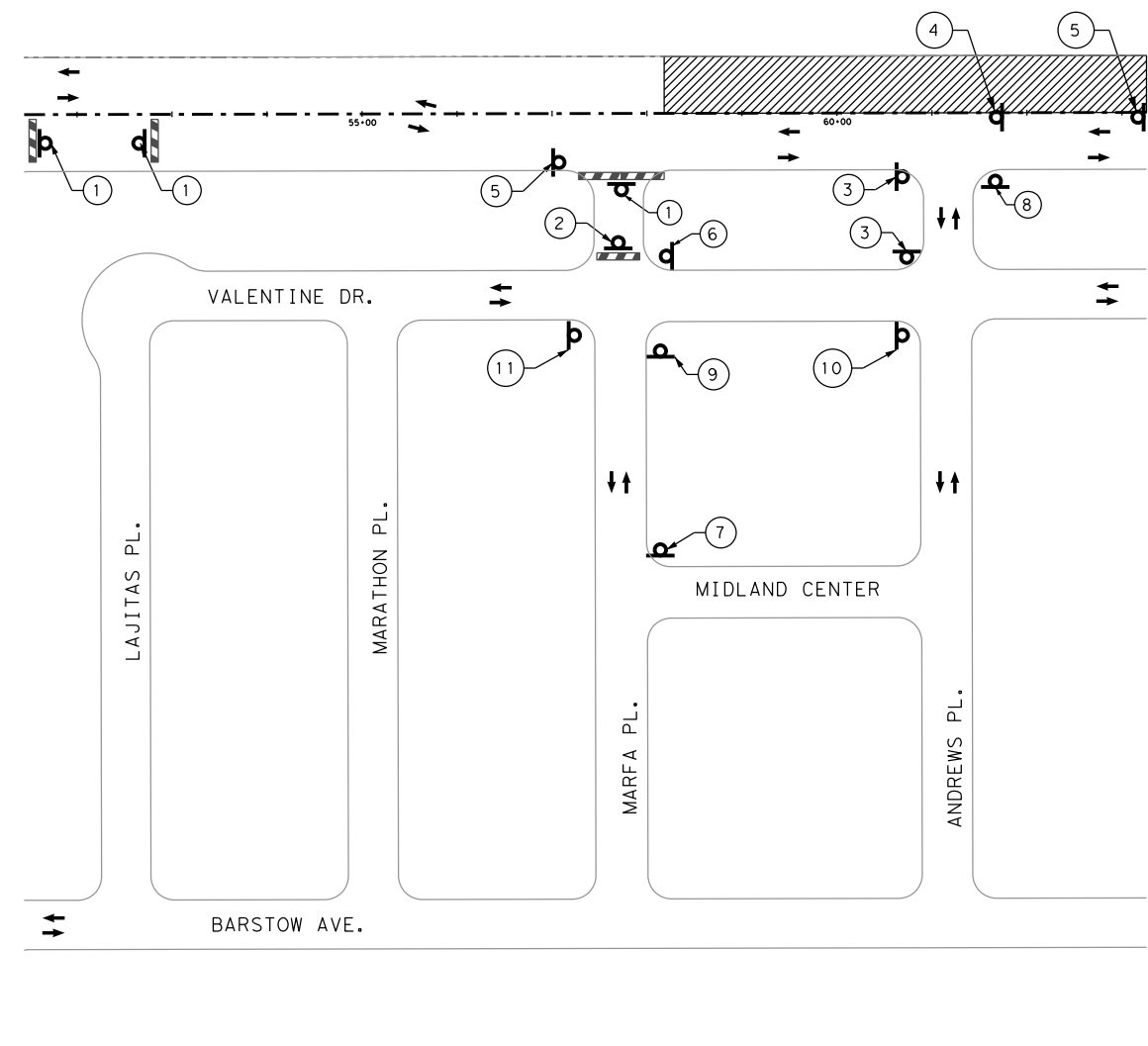
PELLICANO DR.
DETOUR

M4-12T
48"x12"
M4-10L
48"x18"

⑪

PELLICANO DR.
DETOUR

M4-12T
48"x12"
M4-9S
24"x18"



N. T. S.

REVISIONS			
NO.	DATE	DESCRIPTION	BY
①	10/25/19	ADDENDUM NO. 3	CEA

LEGEND

CONSTRUCTION SIGNING

TYPE III BARRICADE

TRAFFIC LANE AND
DIRECTION OF TRAFFIC

WORK ZONE

- NOTES:
1. REFER TO LATEST BC SHEETS FOR PROPER SPACING OF TRAFFIC CONTROL DEVICES.

2. THE TRAFFIC CONTROL PLAN SHALL BE ASSESSED WITH EXISTING FIELD CONDITIONS AT THE TIME OF CONSTRUCTION. ANY VARIATIONS TO THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER, THE CITY, AND/OR THE GOVERNMENT ENTITY, AS APPROPRIATE.

STATE OF TEXAS

RUBEN CHAVEZ

87318

LICENSED
PROFESSIONAL ENGINEER

10/25/19

TEXAS REGISTERED ENGINEERING FIRM F-4564
4712 Woodrow Bean, Ste. F El Paso, TX 79924
915.544.5232 | www.ceagroup.net

CAMINO REAL

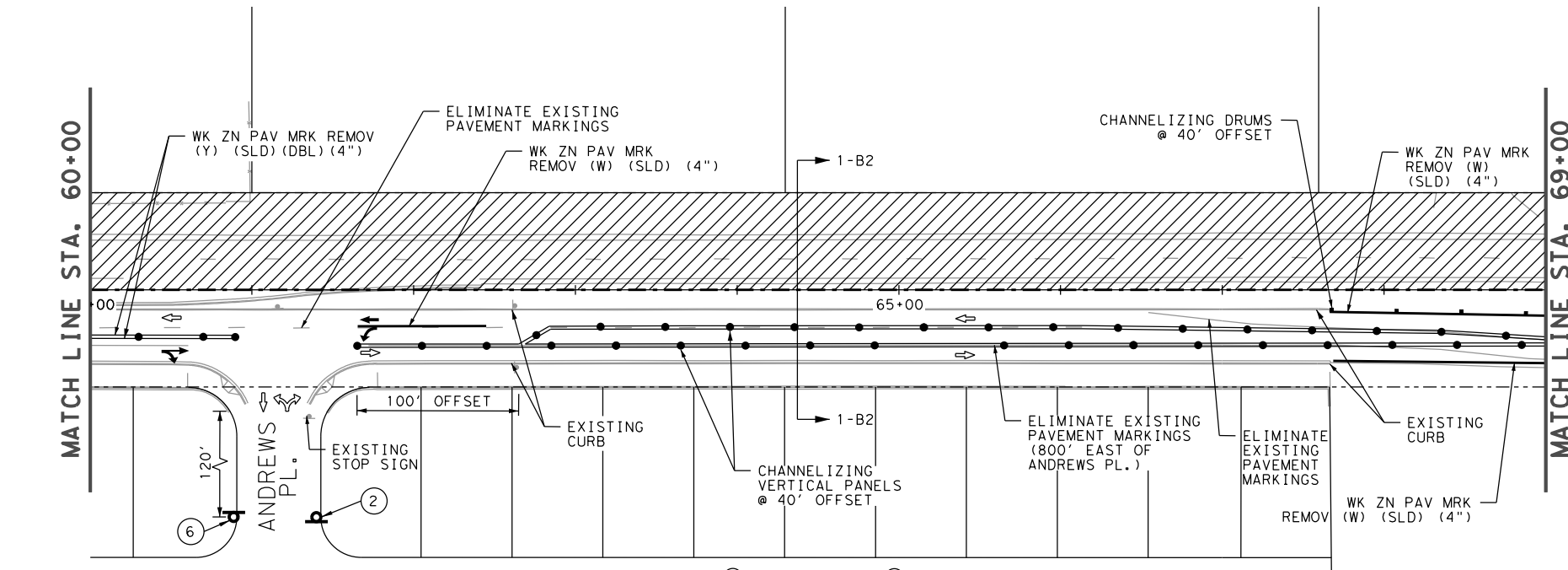
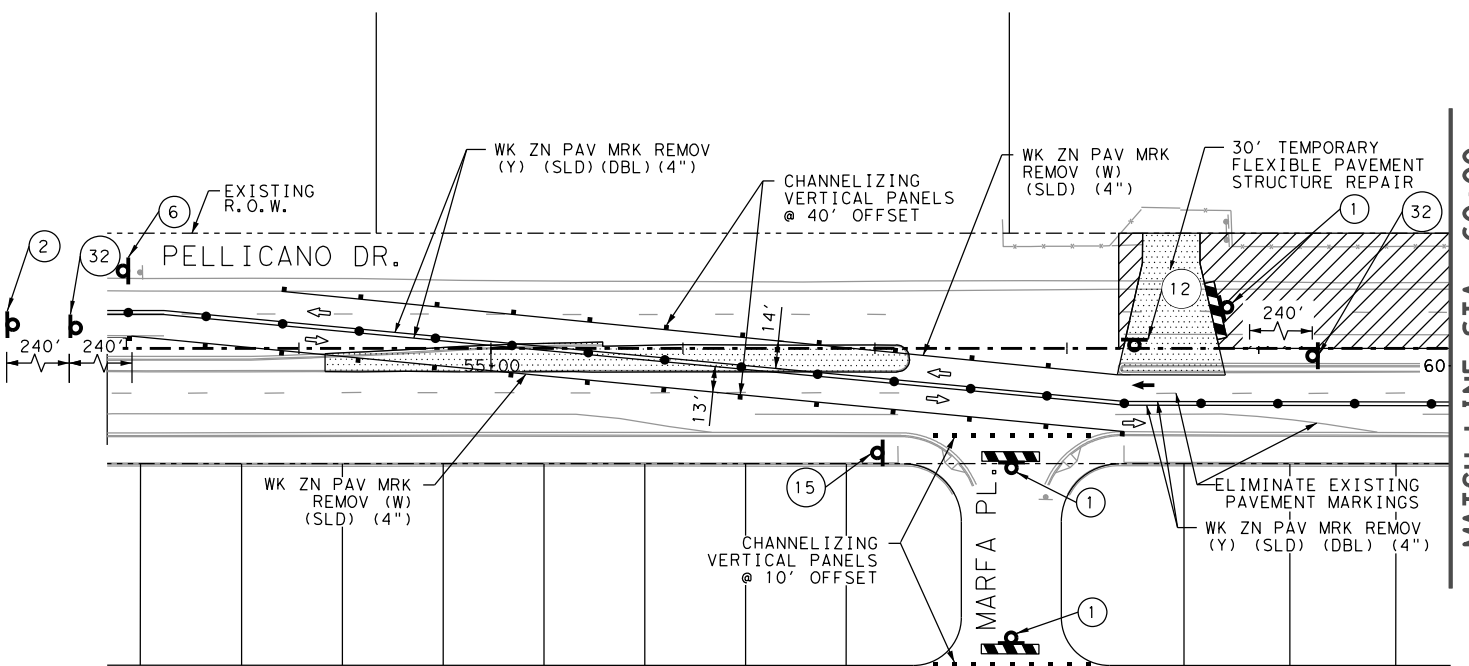
REGIONAL MOBILITY
AUTHORITY

PELLICANO DR.
WIDENING/BUILD

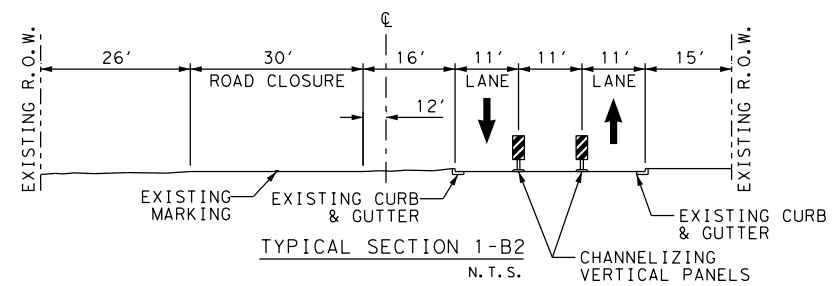
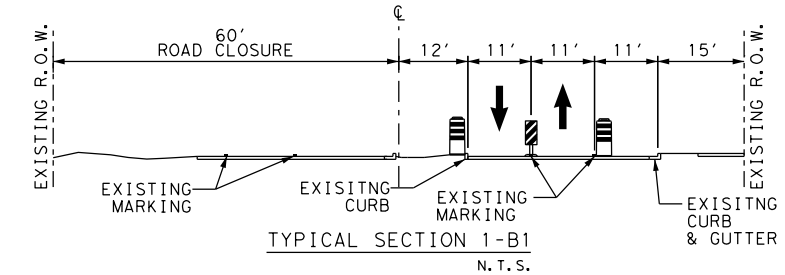
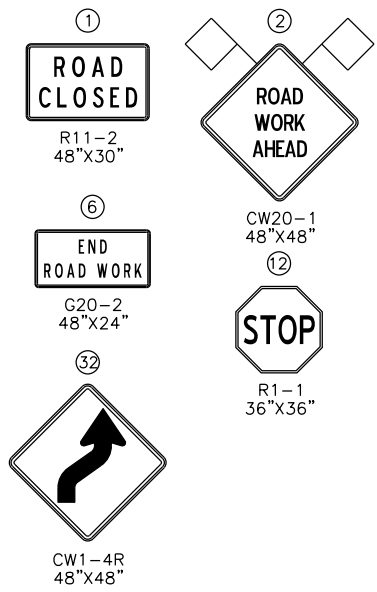
TRAFFIC CONTROL PLAN
DETOUR PLAN - PHASE I-B
MINOR STREETS

SHEET 1 OF 1

FED. NO.	FEDERAL AID PROJECT NO.	SHEET NO.	
6	CBI 2020 (432)	67.1-A3	
STATE	DIST.	COUNTY	
TEXAS	ELP	EL PASO	
CONT.	SECT.	JOB	HIGHWAY NO.
0924	06	534	CS



- NOTES:
- FOR NIGHTTIME, USE APPROPRIATE FLASHING WARNING LIGHTS IN THE ADVANCE WARNING AREA.
 - ADVISORY SPEED TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
 - CONFLICTING PAVEMENT MARKINGS MUST BE REMOVED FOR LONG-TERM PROJECTS. WORK- ZONE MARKINGS MUST BE INSTALLED WHERE NEEDED AND SHALL BE SUBSIDIARY TO ITEM 502.
 - FOR WORK ZONE PROJECTS WHEN PAVEMENT MARKING REMOVAL IS NOT PRACTICABLE, THE CHANNELIZING DEVICES IN THE AREA OF CONFLICT SHOULD BE PLACED AT A MAXIMUM SPACING OF 10 FEET.
 - FOR PLACEMENT AND HEIGHT OF WARNING LIGHTS REFER TO BC(7)-14.
 - REFER TO LATEST BC SHEETS FOR PROPER SPACING OF PLASTIC DRUMS AND OTHER CHANNELIZING DEVICES.
 - PLACEMENT OF WARNING SIGNS, AS SHOWN ON THESE PLANS, MAY BE ALTERED TO ACCOMMODATE FIELD CONDITIONS OR VISUAL OBSTRUCTIONS.
 - CONTRACTOR SHALL FULLY CONSTRUCT ALL AREAS DESIGNATED FOR DRIVEWAY ACCESS WITHIN ITS RESPECTIVE PHASE AND SHALL COORDINATE WITH INDIVIDUAL PROPERTY OWNERS PRIOR TO COMMENCEMENT OF THIS WORK TO ENSURE VEHICULAR ACCESS IN MAINTAINED AT ALL TIMES.
 - CONTRACTOR SHALL COORDINATE WITH COUNTY, OWNER AND OTHER CONTRACTORS FOR FUTURE DEVELOPMENTS DURING CONSTRUCTION.
 - TEMPORARY DRIVEWAY ACCESS REFER TO FLEXIBLE PAVEMENT STRUCTURE REPAIR DETAIL.
 - VARYING EDGE CONDITIONS MAY EXIST. REFER TO WORKSHEET FOR EDGE CONDITION TREATMENT TYPES. CONDITION TREATMENTS SHALL BE CONSIDERED SUBSIDIARY UNDER ITEM 502.



REFER TO PHASE I-A
FOR TRAFFIC
CONTROL
WEST OF STA. 53+00

LEGEND

- WORK ZONE
- TEMPORARY FLEXIBLE PAVEMENT STRUCTURE REPAIR
- PORTABLE FLASHING ARROW BOARD
- TRAFFIC LANE AND DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT MARKERS
- CONSTRUCTION WARNING SIGN TYPE III BARRICADE
- TEMPORARY TRAFFIC SIGNAL
- CHANNELIZING DRUMS
- CHANNELIZING VERTICAL PANELS
- WK ZN PAV MRK REMOV (Y) & (W) (SLD)
- WK ZN PAV MRK REMOV (Y) (SLD) (DBL)
- WK ZN PAV MRK REMOV (W) (SLD) (DOT) (PUPPY TRACKS)
- CONCRETE BARRIER

SCALE: H: 1" = 100'

PELLICANO DR. WIDENING/BUILD

TRAFFIC CONTROL PHASE I - STAGE B

SHEET 1 OF 5

NO.	DATE	DESCRIPTION	BY
1	10/25/19	ADDENDUM NO. 3	CEA

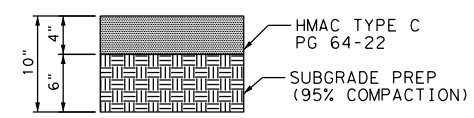
SHEET TOTALS			
ITEM	CODE	DESCRIPTION	QTY
305	6008	SALV. HAUL & STKPL RCL APH PV (0" TO 4")	135
351	6006	FLEXIBLE PAVEMENT STRUCTURE REPAIR(10")	135
662	6063	WK ZN PAV MRK REMOV (W) 4" (SLD)	267
662	6095	WK ZN PAV MRK REMOV (Y) 4" (SLD)	783
677	6001	ELIM EXT PAV MRK & MRKS (4")	1127

FED. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	CBI 2020 (432)	67.2-A3

STATE	DIST.	COUNTY
TEXAS	ELP	EL PASO

CONT.	SECT.	JOB	HIGHWAY NO.
0924	06	534	CS

REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	10/25/19	ADDENDUM NO. 3	CEA



TEMPORARY FLEXIBLE PAVEMENT STRUCTURE REPAIR
N.T.S.

MATCH LINE STA. 69+00

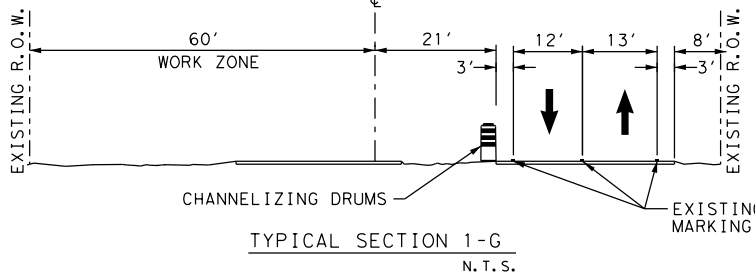
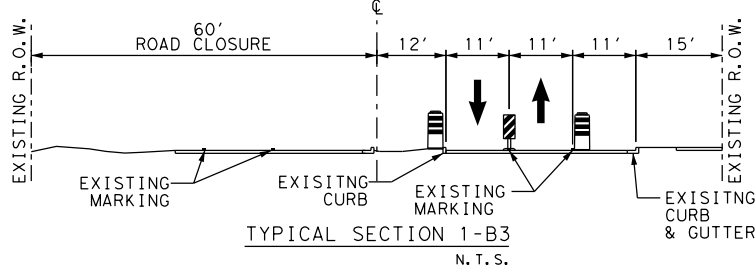
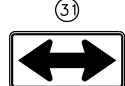
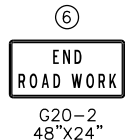
MATCH LINE STA. 81+00

MATCH LINE STA. 81+00

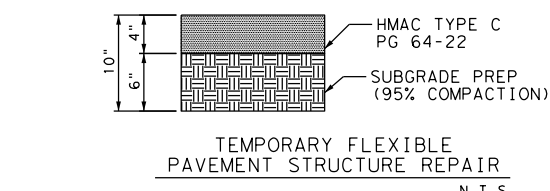
MATCH LINE STA. 93+00

NOTES:

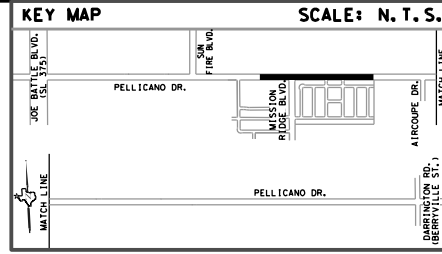
- FOR NIGHTTIME, USE APPROPRIATE FLASHING WARNING LIGHTS IN THE ADVANCE WARNING AREA.
- ADVISORY SPEED TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
- CONFLICTING PAVEMENT MARKINGS MUST BE REMOVED FOR LONG-TERM PROJECTS. WORK- ZONE MARKINGS MUST BE INSTALLED WHERE NEEDED AND SHALL BE SUBSIDIARY TO ITEM 502.
- FOR WORK ZONE PROJECTS WHEN PAVEMENT MARKING REMOVAL IS NOT PRACTICABLE, THE CHANNELIZING DEVICES IN THE AREA OF CONFLICT SHOULD BE PLACED AT A MAXIMUM SPACING OF 10 FEET.
- FOR PLACEMENT AND HEIGHT OF WARNING LIGHTS REFER TO BC(7)-14.
- REFER TO LATEST BC SHEETS FOR PROPER SPACING OF PLASTIC DRUMS AND OTHER CHANNELIZING DEVICES.
- PLACEMENT OF WARNING SIGNS, AS SHOWN ON THESE PLANS, MAY BE ALTERED TO ACCOMMODATE FIELD CONDITIONS OR VISUAL OBSTRUCTIONS.
- CONTRACTOR SHALL FULLY CONSTRUCT ALL AREAS DESIGNATED FOR DRIVEWAY ACCESS WITHIN ITS RESPECTIVE PHASE AND SHALL COORDINATE WITH INDIVIDUAL PROPERTY OWNERS PRIOR TO COMMENCEMENT OF THIS WORK TO ENSURE VEHICULAR ACCESS IN MAINTAINED AT ALL TIMES.
- CONTRACTOR SHALL COORDINATE WITH COUNTY, OWNER AND OTHER CONTRACTORS FOR FUTURE DEVELOPMENTS DURING CONSTRUCTION.
- TEMPORARY DRIVEWAY ACCESS REFER TO FLEXIBLE PAVEMENT STRUCTURE REPAIR DETAIL.
- VARYING EDGE CONDITIONS MAY EXIST. REFER TO WORKSHEET FOR EDGE CONDITION TREATMENT TYPES. CONDITION TREATMENTS SHALL BE CONSIDERED SUBSIDIARY UNDER ITEM 502.



REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	10/18/19	ADDENDUM NO. 2	CEA
2	10/25/19	ADDENDUM NO. 3	CEA



SHEET TOTALS					
ITEM	CODE	DESCRIPTION	UNIT	QTY	
1	305	6008	SALV. HAUL & STKPL RCL APH PV (0" TO 4")	SY	856
	351	6006	FLEXIBLE PAVEMENT STRUCTURE REPAIR(10')	SY	854



LEGEND

- WORK ZONE
- TEMPORARY FLEXIBLE PAVEMENT STRUCTURE REPAIR
- PORTABLE FLASHING ARROW BOARD
- TRAFFIC LANE AND DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT MARKERS
- CONSTRUCTION WARNING SIGN TYPE III BARRICADE
- TEMPORARY TRAFFIC SIGNAL
- CHANNELIZING DRUMS
- CHANNELIZING VERTICAL PANELS
- WK ZN PAV MRK REMOV (Y) & (W) (SLD)
- WK ZN PAV MRK REMOV (Y) (SLD) (DBL)
- WK ZN PAV MRK REMOV (W) (DOT) (PUPPY TRACKS)
- CONCRETE BARRIER

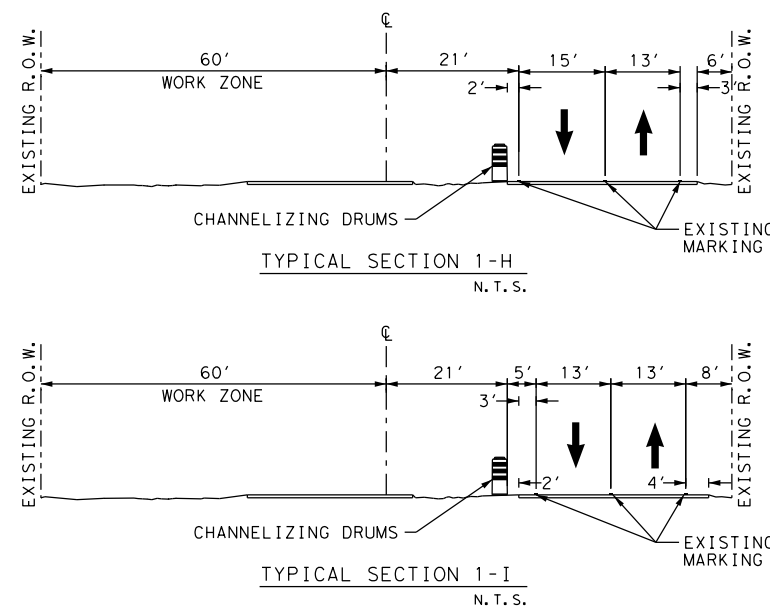
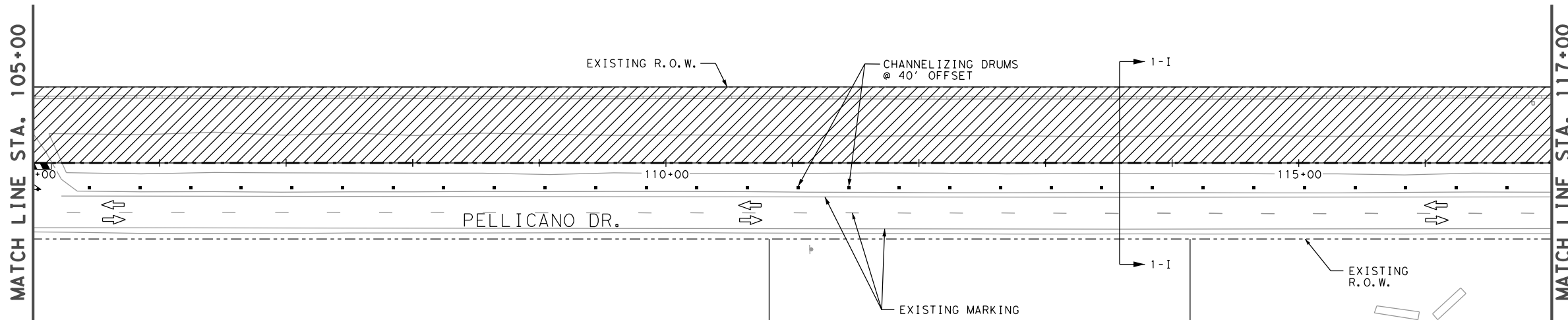
SCALE: H: 1" = 100'

STATE OF TEXAS
RUBEN CHAVEZ
87318
LICENSED PROFESSIONAL ENGINEER
10/25/19

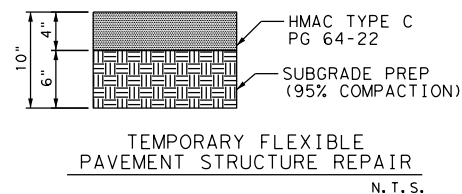
cea group
TEXAS REGISTERED ENGINEERING FIRM F-4564
4712 Woodrow Bean, Ste. F El Paso, TX 79924
915.544.5232 | www.ceagroup.net

CAMINO REAL
REGIONAL MOBILITY AUTHORITY
PELLICANO DR. WIDENING/BUILD
TRAFFIC CONTROL PHASE I - STAGE B

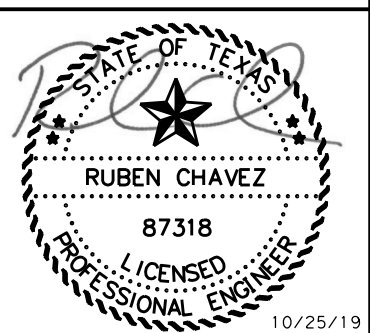
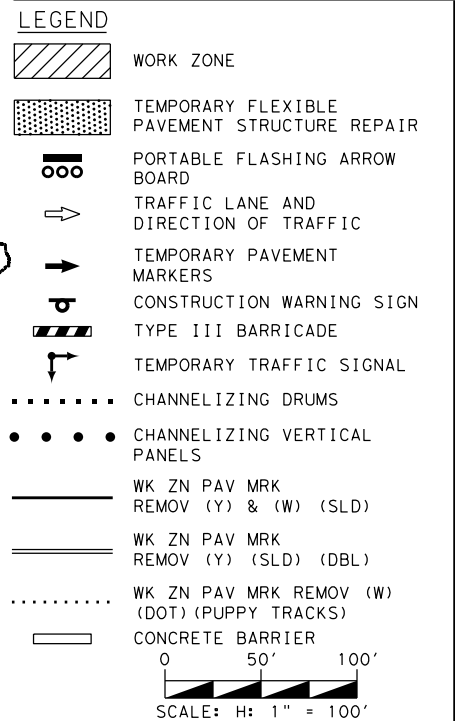
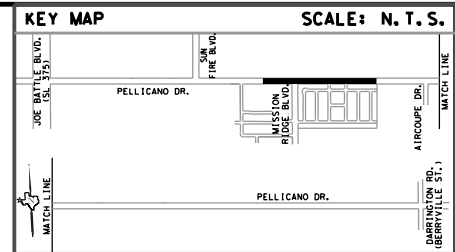
SHEET 2 OF 5			
FED. NO.	FEDERAL AID PROJECT NO.	SHEET NO.	
6	CBI 2020 (432)	68-A3	
STATE	DIST.	COUNTY	
TEXAS	ELP	EL PASO	
CONT.	SECT.	JOB	HIGHWAY NO.
0924	06	534	CS



REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	10/18/19	ADDENDUM NO. 2	CEA
2	10/25/19	ADDENDUM NO. 3	CEA



SHEET TOTALS				
ITEM	CODE	DESCRIPTION	UNIT	QTY
305	6008	SALV. HAUL & STKPL RCL APH PV (0"TO 4")	SY	596
351	8006	FLEXIBLE PAVEMENT STRUCTURE REPAIR(10")	SY	596



TEXAS REGISTERED ENGINEERING FIRM F-4564
4712 Woodrow Bean, Ste. F El Paso, TX 79924
915.544.5232 | www.ceagroup.net



CAMINO REAL
REGIONAL MOBILITY
AUTHORITY

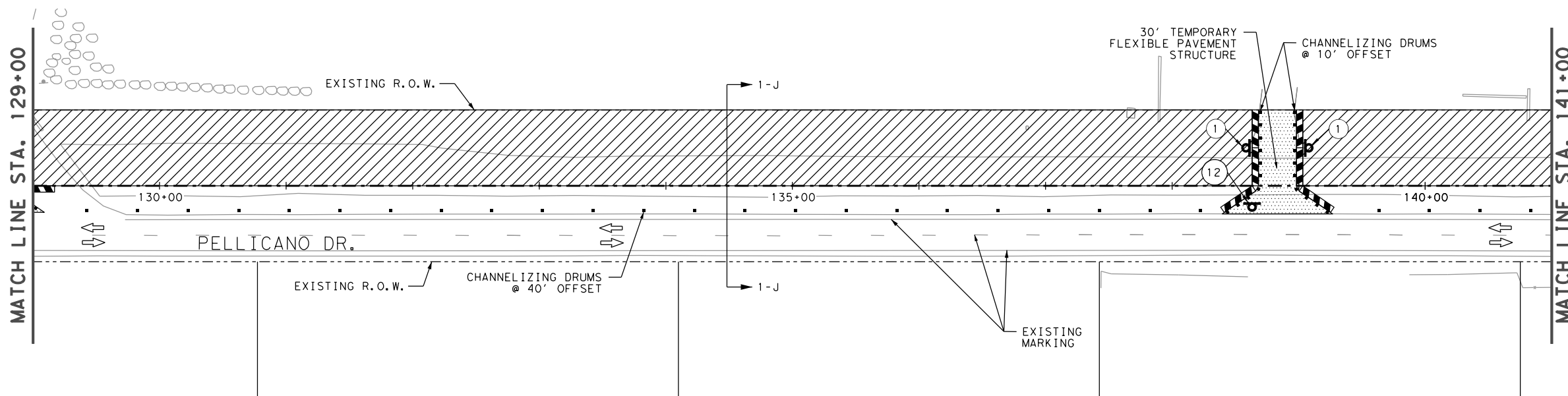
PELLICANO DR.
WIDENING/BUILD


TRAFFIC CONTROL
PHASE I - STAGE B

2 SHEET 3 OF 5

FED. RD. DIST. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	CBI 2020 (432)		69-A3
STATE	DIST.	COUNTY	
TEXAS	ELP	EL PASO	
CONT.	SECT.	JOB	HIGHWAY NO.
0924	06	534	CS

- ### NOTES:
1. FOR NIGHTTIME, USE APPROPRIATE FLASHING WARNING LIGHTS IN THE ADVANCE WARNING AREA.
 2. ADVISORY SPEED TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
 3. CONFLICTING PAVEMENT MARKINGS MUST BE REMOVED FOR LONG-TERM PROJECTS. WORK- ZONE MARKINGS MUST BE INSTALLED WHERE NEEDED AND SHALL BE SUBSIDIARY TO ITEM 502.
 4. FOR WORK ZONE PROJECTS WHEN PAVEMENT MARKING REMOVAL IS NOT PRACTICABLE, THE CHANNELIZING DEVICES IN THE AREA OF CONFLICT SHOULD BE PLACED AT A MAXIMUM SPACING OF 10 FEET.
 5. FOR PLACEMENT AND HEIGHT OF WARNING LIGHTS REFER TO BC(7)-14.
 6. REFER TO LATEST BC SHEETS FOR PROPER SPACING OF PLASTIC DRUMS AND OTHER CHANNELIZING DEVICES.
 7. PLACEMENT OF WARNING SIGNS, AS SHOWN ON THESE PLANS, MAY BE ALTERED TO ACCOMMODATE FIELD CONDITIONS OR VISUAL OBSTRUCTIONS.
 8. CONTRACTOR SHALL FULLY CONSTRUCT ALL AREAS DESIGNATED FOR DRIVEWAY ACCESS WITHIN ITS RESPECTIVE PHASE AND SHALL COORDINATE WITH INDIVIDUAL PROPERTY OWNERS PRIOR TO COMMENCEMENT OF THIS WORK TO ENSURE VEHICULAR ACCESS IN MAINTAINED AT ALL TIMES.
 9. CONTRACTOR SHALL COORDINATE WITH COUNTY, OWNER AND OTHER CONTRACTORS FOR FUTURE DEVELOPMENTS DURING CONSTRUCTION.
 10. TEMPORARY DRIVEWAY ACCESS REFER TO FLEXIBLE PAVEMENT STRUCTURE REPAIR DETAIL.
 11. VARYING EDGE CONDITIONS MAY EXIST. REFER TO WORKSHEET FOR EDGE CONDITION TREATMENT TYPES. CONDITION TREATMENTS SHALL BE CONSIDERED SUBSIDIARY UNDER ITEM 502.






CAMINO REAL

REGIONAL MOBILITY
AUTHORITY

PELLICANO DR. WIDENING/BUILD

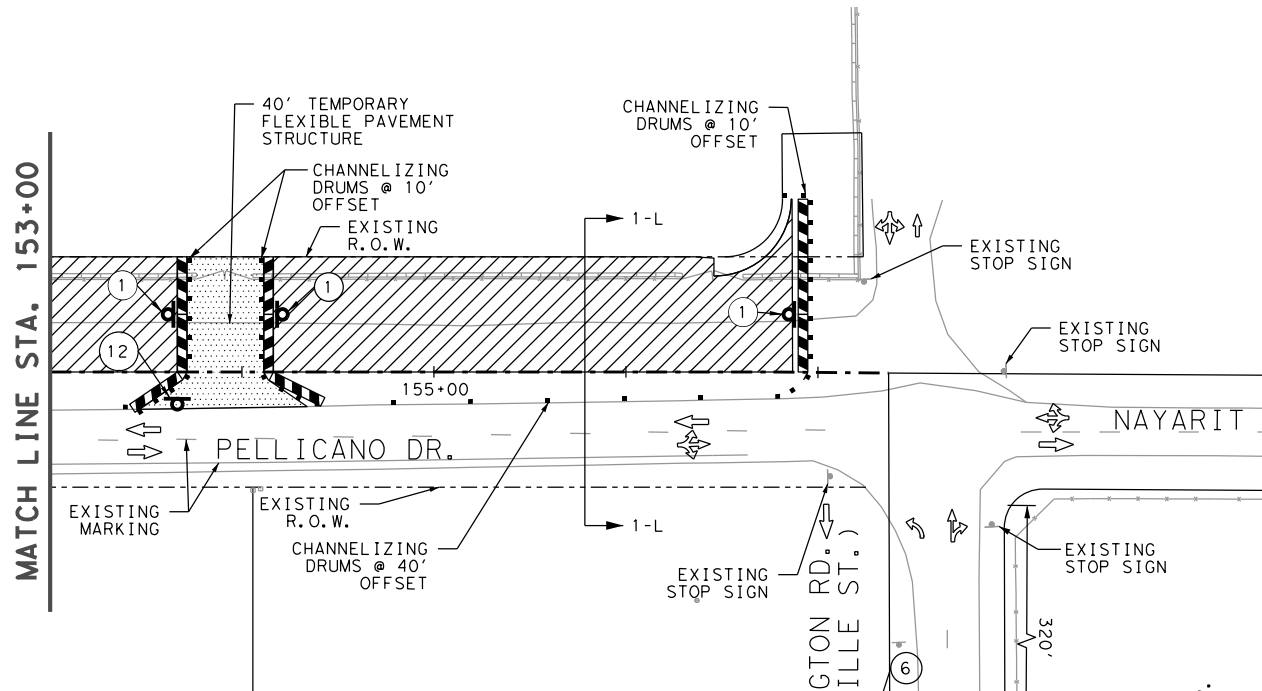
TRAFFIC CONTROL PHASE I - STAGE B


SHEET 4 OF 5

FED. NO. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	CBI 2020 (432)	70-A3
STATE	DIST.	COUNTY
TEXAS	ELP	EL PASO
CONT.	SECT.	HIGHWAY NO.
0924	06 534	CS

MATCH LINE STA. 141+00

MATCH LINE STA. 153+00



NOTES:

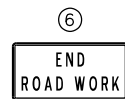
1. FOR NIGHTTIME, USE APPROPRIATE FLASHING WARNING LIGHTS IN THE ADVANCE WARNING AREA.
2. ADVISORY SPEED TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
3. CONFLICTING PAVEMENT MARKINGS MUST BE REMOVED FOR LONG-TERM PROJECTS. WORK- ZONE MARKINGS MUST BE INSTALLED WHERE NEEDED AND SHALL BE SUBSIDIARY TO ITEM 502.
4. FOR WORK ZONE PROJECTS WHEN PAVEMENT MARKING REMOVAL IS NOT PRACTICABLE, THE CHANNELIZING DEVICES IN THE AREA OF CONFLICT SHOULD BE PLACED AT A MAXIMUM SPACING OF 10 FEET.
5. FOR PLACEMENT AND HEIGHT OF WARNING LIGHTS REFER TO BC(7)-14.
6. REFER TO LATEST BC SHEETS FOR PROPER SPACING OF PLASTIC DRUMS AND OTHER CHANNELIZING DEVICES.
7. PLACEMENT OF WARNING SIGNS, AS SHOWN ON THESE PLANS, MAY BE ALTERED TO ACCOMMODATE FIELD CONDITIONS OR VISUAL OBSTRUCTIONS.
8. CONTRACTOR SHALL FULLY CONSTRUCT ALL AREAS DESIGNATED FOR DRIVEWAY ACCESS WITHIN ITS RESPECTIVE PHASE AND SHALL COORDINATE WITH INDIVIDUAL PROPERTY OWNERS PRIOR TO COMMENCEMENT OF THIS WORK TO ENSURE VEHICULAR ACCESS IN MAINTAINED AT ALL TIMES.
9. CONTRACTOR SHALL COORDINATE WITH COUNTY, OWNER AND OTHER CONTRACTORS FOR FUTURE DEVELOPMENTS DURING CONSTRUCTION.
10. TEMPORARY DRIVEWAY ACCESS REFER TO FLEXIBLE PAVEMENT STRUCTURE REPAIR DETAIL.
11. VARYING EDGE CONDITIONS MAY EXIST. REFER TO WORKSHEET FOR EDGE CONDITION TREATMENT TYPES. CONDITION TREATMENTS SHALL BE CONSIDERED SUBSIDIARY UNDER ITEM 502.



R11-2
48"x30"



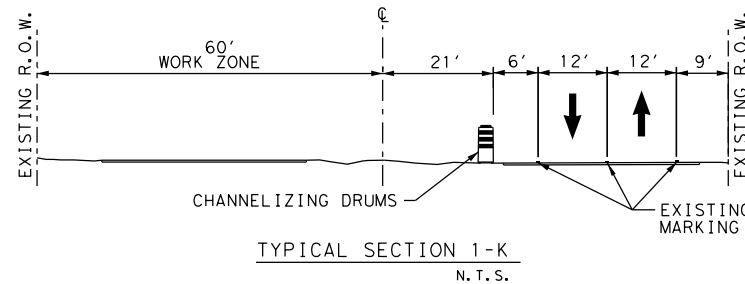
CW20-1
48"x48"



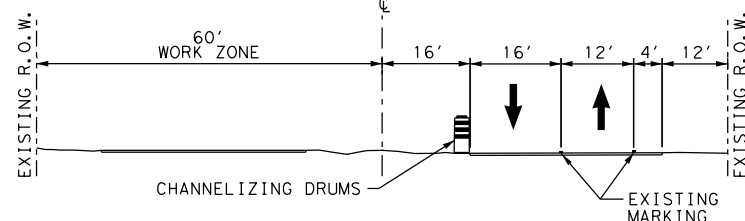
G20-2
48"x24"



R1-1
36"x36"

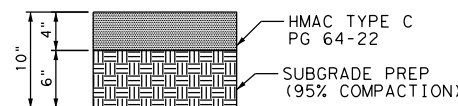


TYPICAL SECTION 1-K
N. T. S.



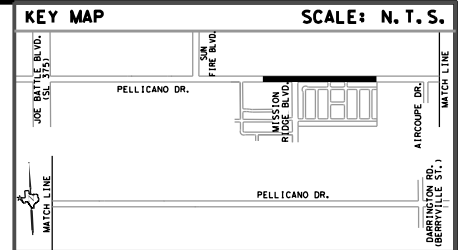
TYPICAL SECTION 1-L
N. T. S.

REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	10/18/19	ADDENDUM NO. 2	CEA
2	10/25/19	ADDENDUM NO. 3	CEA



TEMPORARY FLEXIBLE
PAVEMENT STRUCTURE REPAIR
N. T. S.

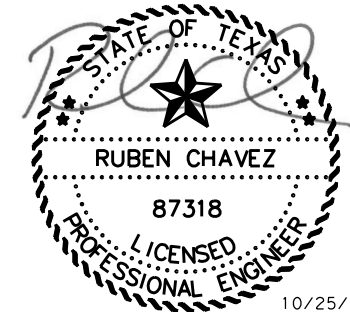
SHEET TOTALS			
ITEM CODE	DESCRIPTION	UNIT	QTY
305 6008	SALV. HAUL & STKPL RCL APH PV (10" TO 4")	SY	1234
351 6006	FLEXIBLE PAVEMENT STRUCTURE REPAIR (10")	SY	1234



LEGEND

- WORK ZONE
- TEMPORARY FLEXIBLE PAVEMENT STRUCTURE REPAIR
- PORTABLE FLASHING ARROW BOARD
- TRAFFIC LANE AND DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT MARKERS
- CONSTRUCTION WARNING SIGN
- TYPE III BARRICADE
- TEMPORARY TRAFFIC SIGNAL
- CHANNELIZING DRUMS
- CHANNELIZING VERTICAL PANELS
- WK ZN PAV MRK REMOV (Y) & (W) (SLD)
- WK ZN PAV MRK REMOV (Y) (SLD) (DBL)
- WK ZN PAV MRK REMOV (W) (DOT) (PUPPY TRACKS)
- CONCRETE BARRIER

SCALE: H: 1" = 100'



TEXAS REGISTERED ENGINEERING FIRM F-4564
4712 Woodrow Bean, Ste. F El Paso, TX 79924
915.544.5232 | www.ceagroup.net



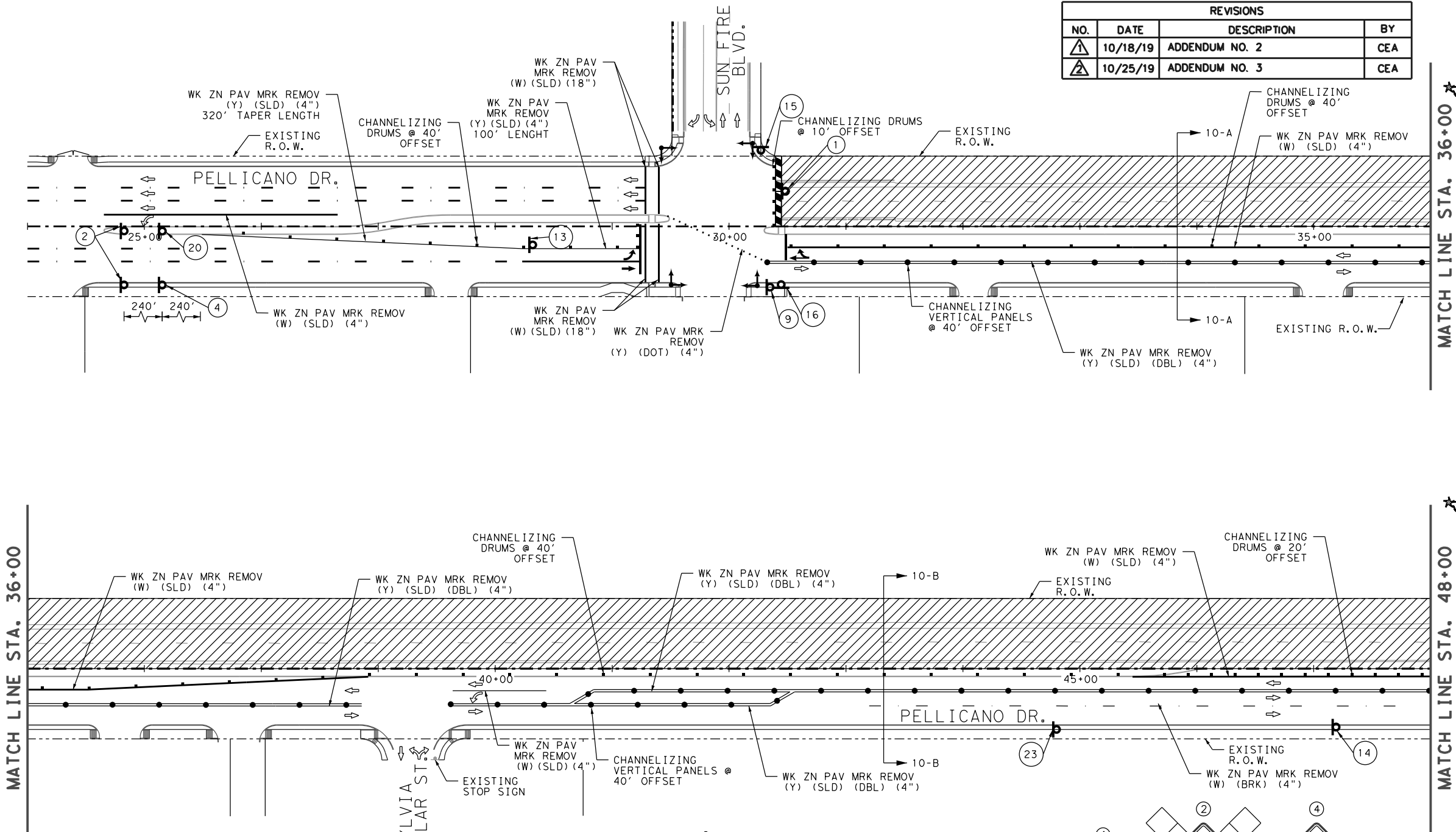
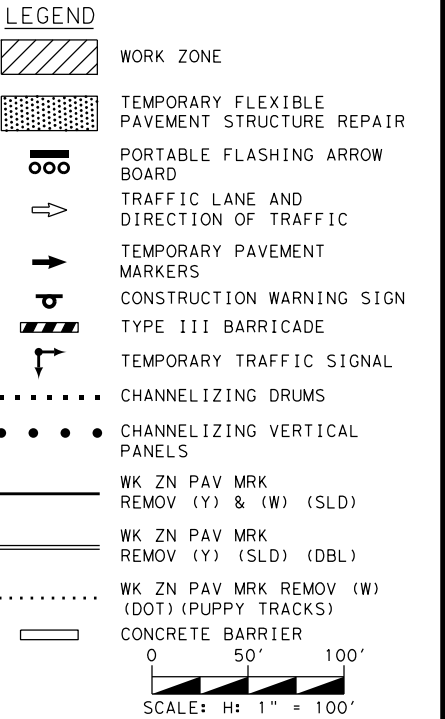
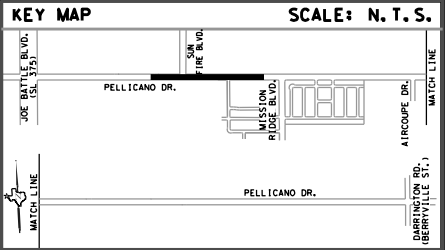
PELLICANO DR.
WIDENING/BUILD

TRAFFIC CONTROL
PHASE I - STAGE B

SHEET 5 OF 5

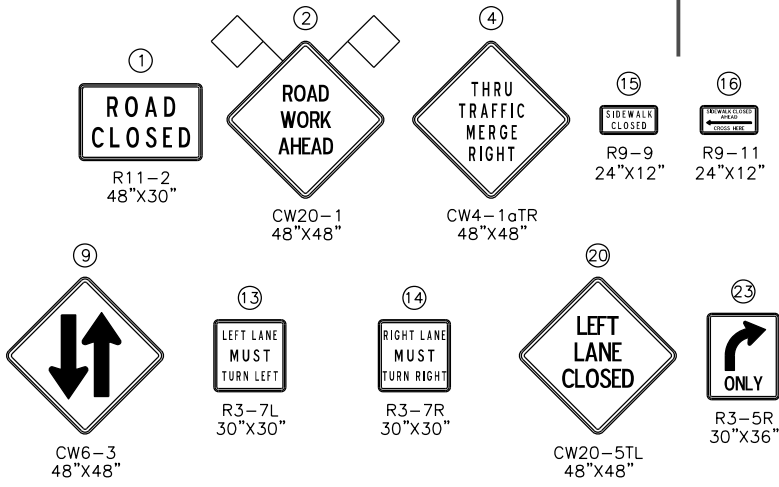
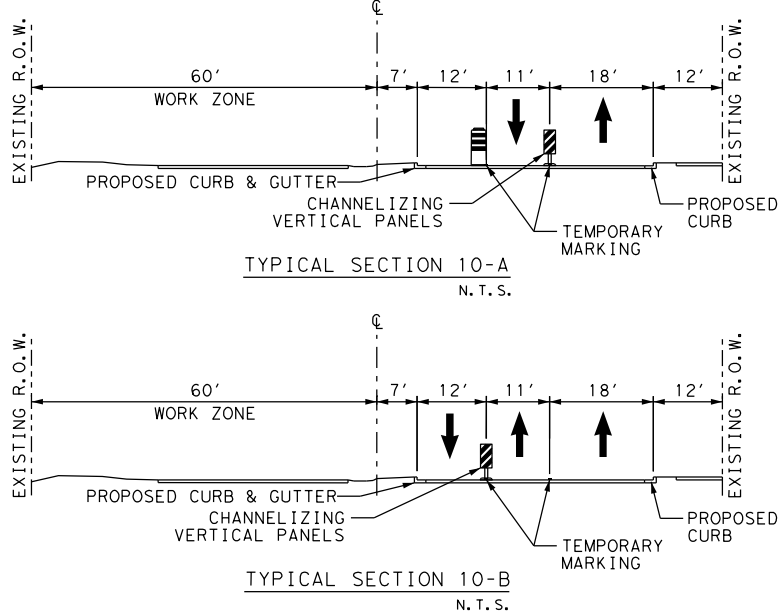
FED. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	CBI 2020 (432)	71-A3
STATE	DIST.	COUNTY
TEXAS	ELP	EL PASO
CONT.	SECT.	JOB
0924	06	534
HIGHWAY NO.		
CS		

REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	10/18/19	ADDENDUM NO. 2	CEA
2	10/25/19	ADDENDUM NO. 3	CEA



NOTES:

- FOR NIGHTTIME, USE APPROPRIATE FLASHING WARNING LIGHTS IN THE ADVANCE WARNING AREA.
- ADVISORY SPEED TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
- CONFLICTING PAVEMENT MARKINGS MUST BE REMOVED FOR LONG-TERM PROJECTS. WORK- ZONE MARKINGS MUST BE INSTALLED WHERE NEEDED AND SHALL BE SUBSIDIARY TO ITEM 502.
- FOR WORK ZONE PROJECTS WHEN PAVEMENT MARKING REMOVAL IS NOT PRACTICABLE, THE CHANNELIZING DEVICES IN THE AREA OF CONFLICT SHOULD BE PLACED AT A MAXIMUM SPACING OF 10 FEET.
- FOR PLACEMENT AND HEIGHT OF WARNING LIGHTS REFER TO BC(7)-14.
- REFER TO LATEST BC SHEETS FOR PROPER SPACING OF PLASTIC DRUMS AND OTHER CHANNELIZING DEVICES.
- PLACEMENT OF WARNING SIGNS, AS SHOWN ON THESE PLANS, MAY BE ALTERED TO ACCOMMODATE FIELD CONDITIONS OR VISUAL OBSTRUCTIONS.
- CONTRACTOR SHALL FULLY CONSTRUCT ALL AREAS DESIGNATED FOR DRIVEWAY ACCESS WITHIN ITS RESPECTIVE PHASE AND SHALL COORDINATE WITH INDIVIDUAL PROPERTY OWNERS PRIOR TO COMMENCEMENT OF THIS WORK TO ENSURE VEHICULAR ACCESS IN MAINTAINED AT ALL TIMES.
- CONTRACTOR SHALL COORDINATE WITH COUNTY, OWNER AND OTHER CONTRACTORS FOR FUTURE DEVELOPMENTS DURING CONSTRUCTION.
- TEMPORARY DRIVEWAY ACCESS REFER TO FLEXIBLE PAVEMENT STRUCTURE REPAIR DETAIL.
- VARYING EDGE CONDITIONS MAY EXIST. REFER TO WORKSHEET FOR EDGE CONDITION TREATMENT TYPES. CONDITION TREATMENTS SHALL BE CONSIDERED SUBSIDIARY UNDER ITEM 502.



SHEET TOTALS			
ITEM CODE	DESCRIPTION	UNIT	QTY
305 6008	SALV. HAUL & STKPL RCL APH PV (0" TO 4")	SY	285
662 6063	WK ZN PAV MRK REMOV (W) 4" (SLD)	LF	842
662 6074	WK ZN PAV MRK REMOV (W) 18" (SLD)	LF	180
662 6081	WK ZN PAV MRK REMOV (W) (DBL ARROW)	EA	1
662 6094	WK ZN PAV MRK REMOV (Y) 4" (DOT)	LF	24
662 6095	WK ZN PAV MRK REMOV (Y) 4" (SLD)	LF	420

STATE OF TEXAS

RUBEN CHAVEZ

87318

LICENSED PROFESSIONAL ENGINEER

10/25/19

cea group

TEXAS REGISTERED ENGINEERING FIRM F-4564

4712 Woodrow Bean, Ste. F El Paso, TX 79924

915.544.5232 | www.ceagroup.net

CAMINO REAL

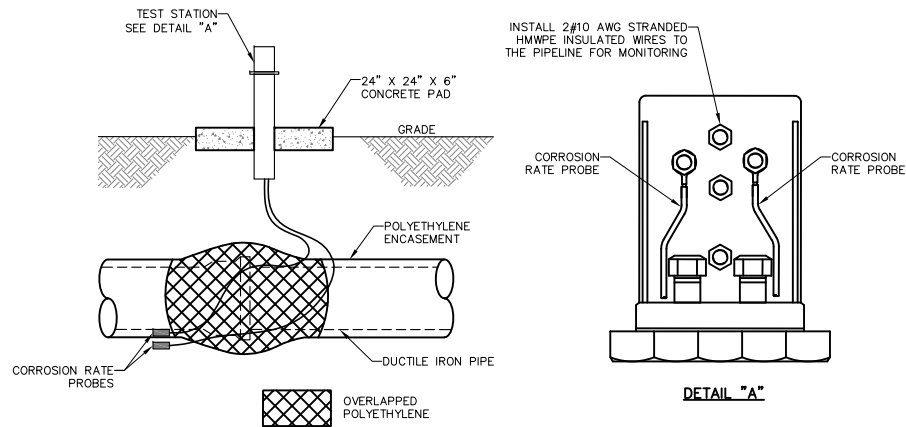
REGIONAL MOBILITY AUTHORITY

PELLICANO DR. WIDENING/BUILD

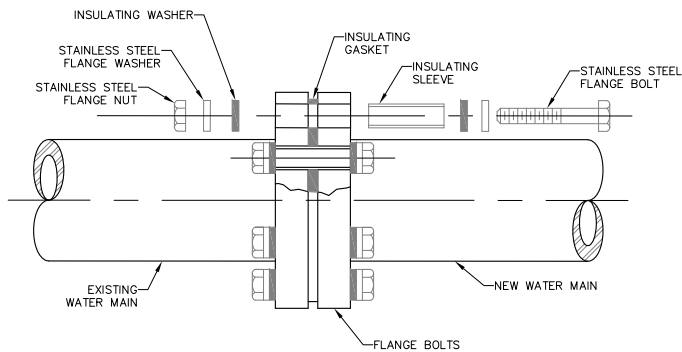
TRAFFIC CONTROL PHASE X

SHEET 1 OF 2

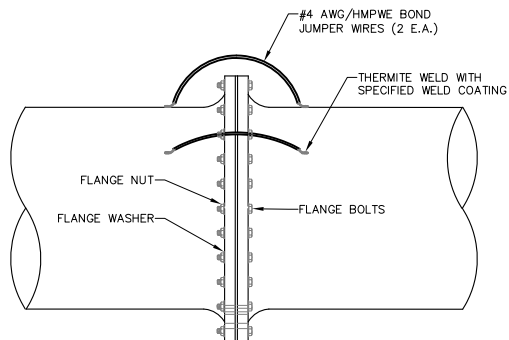
FED. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	CBI 2020 (432)	86-A3
STATE	DIST.	COUNTY
TEXAS	ELP	EL PASO
CONT.	SECT.	JOB
0924	06	534
HIGHWAY NO.		
CS		



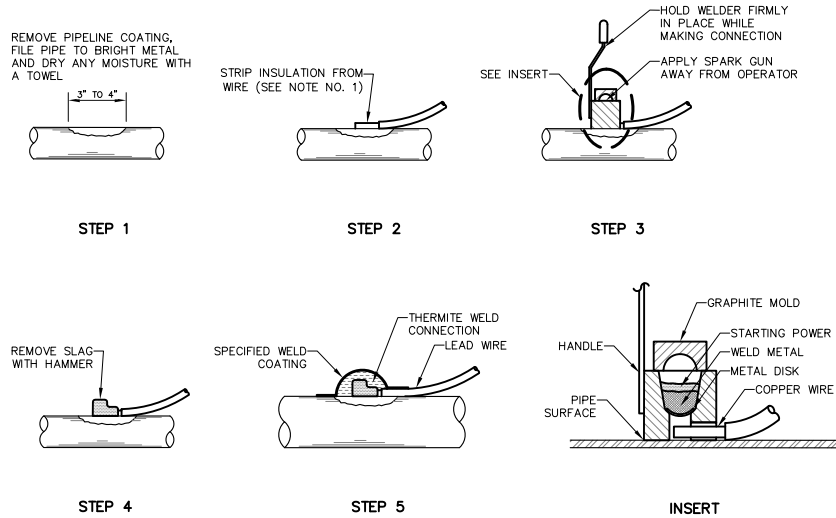
**TYPE MTS MONITORING TEST STATION
FOR DUCTILE IRON PIPE INSTALLATION**
SCALE: N.T.S.



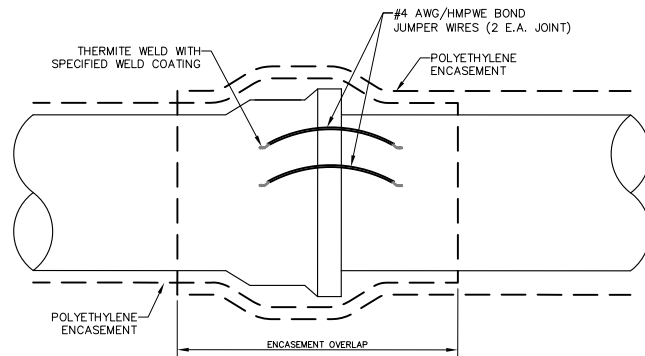
FLANGED ISOLATION KIT
SCALE: N.T.S.



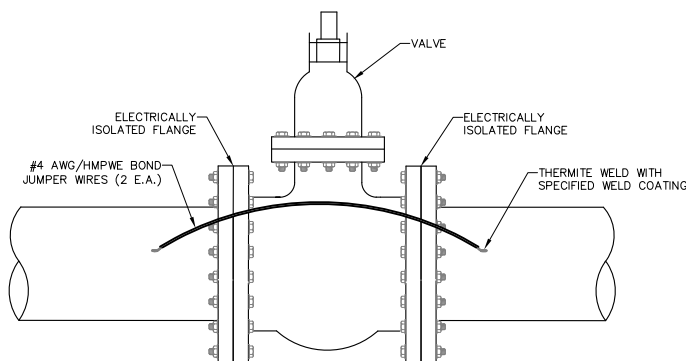
TYPICAL FLANGE BOND CONNECTION
SCALE: N.T.S.



THERMITE WELD CONNECTION
SCALE: N.T.S.



TYPICAL BOND FOR DUCTILE IRON PIPE JOINT
SCALE: N.T.S.



TYPICAL BONDING ACROSS IN-LINE VALVE
SCALE: N.T.S.

NOTES:

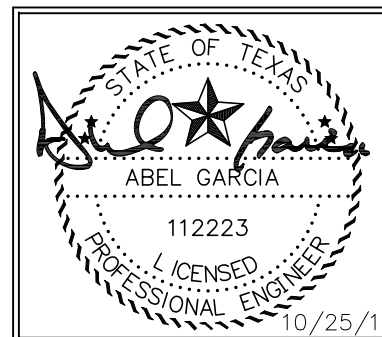
1. CATHODIC PROTECTION SHALL BE SUBSIDIARY TO WATER MAIN (DIP) OF SPECIAL SPECIFICATION 7016.
2. ALL JOINTS ARE TO BE JOINT BONDED TO PROVIDE ELECTRICAL CONTINUITY ALONG THE ENTIRE LENGTH OF PIPELINE.
3. PROVIDE ELECTRICALLY ISOLATED FLANGES AT ALL CONNECTIONS TO EXISTING PIPELINES.
4. ALL JOINTS SHALL BE MJ VALVES UNLESS SHOWN OTHERWISE.
5. PROVIDE CATHODIC PROTECTION TEST STATIONS EVERY 1,000 LF OF APPROVED PIPE. TEST STATION SHALL BE OUT OF THE FUTURE ROADWAY, BEHIND BACK OF CURB.
6. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PIPE JOINTS AND COORDINATE FABRICATION OF PIPE COMPONENTS REQUIRED TO COMPLETE ALL PIPING CONNECTIONS PRIOR TO PLACING THE ORDER FOR THE NEW PIPE. ALL DIMENSIONS SHALL BE FIELD VERIFIED. FAILURE TO LOCATE AND VERIFY EXISTING JOINTS AND INCORPORATE IN THE SHOP DRAWINGS PRIOR TO FABRICATION SHALL NOT BE CAUSE FOR ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL COORDINATE ADJUSTMENTS WITH THE PIPE MANUFACTURER AND NOTIFY ENGINEER AND OWNER. COORDINATION WITH THE MANUFACTURER SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
7. CONTRACTOR SHALL PERFORM NON-DESTRUCTIVE SURFACE EXPLORATION ON ALL EXISTING UTILITIES THAT CROSS THE PROPOSED PIPELINE AND SUBMIT RESULTS TO ENGINEER PRIOR TO ORDERING MATERIALS.
8. APPROVED PIPE TO BE SUBMITTED BY CONTRACTOR AND APPROVED BY ENGINEER.
9. ALL ANODES TO BE ULTRA HIGH POTENTIAL ANODES.
10. COPPER SLEEVE BE ATTACHED TO THE CABLE END WHERE IT IS TO BE THERMITE WELDED (CADWELDED)
11. MANUFACTURE RECOMMENDATIONS FOR INSTALLATION ARE TO BE FOLLOWED WHEN INSTALLING INDUSTRY STANDARD PERMANENT REFERENCE ELECTRODES.
12. TEST FOR STRAY CURRENT INTERFERENCE PRIOR TO BEGINNING OF CATHODIC PROTECTION.
13. INSTALL 17LB. MAGNESIUM ANODE W/ CABLE BROUGHT UP INTO THE TEST STATION WITH THE TEST LEAD WIRES.
14. NO GRAVEL IS TO BE USED NEAR ANY PORTION OF THE CATHODIC PROTECTION.
15. THE ANODE LEAD WIRE TO TEST STATIONS AS WELL AS OTHER CABLES, THE INSULATION SHALL BE SUFFICIENT FOR DIRECT BURY.

**EL PASO WATER
PELLICANO DRIVE
WIDENING/BUILD
EL PASO, TEXAS
TEST STATION SCHEDULE**

DUCTILE IRON PIPE OPTION

DESCRIPTION

77+90	CORROSION RATE MONITORING TEST STATION	MTS
88+00	CORROSION RATE MONITORING TEST STATION	MTS
98+00	CORROSION RATE MONITORING TEST STATION	MTS
108+00	CORROSION RATE MONITORING TEST STATION	MTS
118+00	CORROSION RATE MONITORING TEST STATION	MTS
128+00	CORROSION RATE MONITORING TEST STATION	MTS
138+00	CORROSION RATE MONITORING TEST STATION	MTS
148+00	CORROSION RATE MONITORING TEST STATION	MTS
156+75	CORROSION RATE MONITORING TEST STATION	MTS



TEXAS REGISTERED ENGINEERING FIRM F-4564
4712 Woodrow Bean, Ste. F El Paso, TX 79924
915.544.5232 | www.ceagroup.net



**CAMINO REAL
REGIONAL MOBILITY
AUTHORITY
PELLICANO DR.
WIDENING/BUILD
CATHODIC PROTECTION
DETAILS**

SHEET 1 OF 1		
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	CBI 2020 (432)	446.1-A3
STATE	DIST.	COUNTY
TEXAS	ELP	EL PASO
CONT.	SECT.	JOB
0924	06	534
HIGHWAY NO.		
CS		