



May 4, 2022

**RE: Addendum No. 2
Canal Road Improvements from SR-161 to Wilson Blvd**

TO ALL BIDDERS ON THE ABOVE REFERENCED PROJECT:

In response to questions and comments received by Thompson Engineering, Inc., and the City of Orange Beach, the plans, contract documents and specifications for the above referenced project are hereby revised as follows:

1. Contract Documents and Specifications

I. Under **Section III – Bid Form**, replace pages 1-5 of 5 of the bid forms with revised forms to include the following:

i. Revise quantities for the following pay items:

- | | |
|--------------|--------------|
| 1. 206C-000 | 15. 623A-000 |
| 2. 206C-010 | 16. 623B-000 |
| 3. 206C-017 | 17. 623B-001 |
| 4. 206D-000 | 18. 623B-012 |
| 5. 206D-002 | 19. 623B-150 |
| 6. 206D-003 | 20. 623B-151 |
| 7. 206D-011 | 21. 623C-000 |
| 8. 450A-007 | 22. 623C-003 |
| 9. 618A-000 | 23. 665Q-002 |
| 10. 618A-001 | 24. 710A-160 |
| 11. 618B-003 | 25. 710A-165 |
| 12. 618C-001 | 26. 710A-170 |
| 13. 618C-002 | 27. 710B-021 |
| 14. 618D-000 | |

ii. Revise description and quantity for pay item 618C-002 Directional Tactile **Walking** Surface Indicator

iii. Remove pay item 450A-006 Reinforced Cement Concrete Pavement, 10 Inches Thick, and replace with pay item 450A-007 Plain Cement Concrete Pavement, 12" Thick

iv. Add the following pay items:

1. 618C-001 Detectable Warning Surface
2. 623B-012 Concrete Curb, Type N (Modified)

- II. Under **Section VIII – Supplemental Specifications**, insert Supplemental Specification No's 516-18, 618-18 and 707-18. A copy of these supplemental specifications is attached.
2. Plans
 - I. On Sheets 2-F through 2-J, revise the rate for 424A-340 in the Required Materials Legend from 165 lbs/sy to 220 lbs/sy
 - II. On Sheets 3 through 3-A, revise the quantities for pay items listed above
 - III. On Sheet 3-B, add reference to the required Standard or Special Drawings in the box sheet
 - IV. On Sheet 3-C, add reference to the required Standard or Special Drawings in the summary box and add another summary box for Required Drainage Removals
 - V. On Sheet 3-D move summary box to new Sheet 3-I and add reference to the required Standard or Special Drawings in the summary box
 - VI. On Sheet 22, revise the callouts for the required curb to be used in truck aprons
 - VII. On Sheets 40 through 47, revise the signing plan as shown
 - VIII. Add the following sheets:
 - i. Sheets 2-K, 2-L, 2-M for additional typical sections
 - ii. Sheets 3-E, 3-F, 3-G, 3-H, 3-I, 3-J for additional summary boxes

The following contractor questions have been received and are answered as follows:

1. Will adjustments in compensation be made for bituminous materials based on the ALDOT "Asphalt Index" and for construction fuel for the production of Hot Mix Asphalt (HMA) based on the ALDOT HMA production fuel index?
Yes, this project will conform to ALDOT Specifications Section 109.03 (e) Bituminous Material Price Adjustments and (f) Adjustments Due to Cost of Construction Fuel for HMA Production.
2. What are the construction details for the required slotted drains?
There are four (4) total sections of slotted drain required on this project. Both are in concrete gutter sections. Two of them are in driveways and will be subjected to traffic. ALDOT Standard Drawing Nos. 53201 and 53204 are to be used in constructing the required slotted drains, with 53204 specifically to be used on the two drains that are subjected to traffic in driveways.

Please find the following items attached:

- A. Revised Bid Form Pages 1-5 of 5
- B. Supplemental Specification No's 516-18, 618-18 and 707-18
- C. New or Revised Construction Plan Sheets 1-A, 2-F, 2-G, 2-H, 2-I, 2-J, 2-K, 2-L, 2-M, 3, 3-A, 3-B, 3-C, 3-D, 3-E, 3-F, 3-G, 3-H, 3-I, 3-J, 22, 40, 41, 42, 43, 44, 45, 46, 47

Receipt of this addendum must be acknowledged on the last page of the Bid Form and a copy of this addendum must be included with the Bidder's proposal. If you have any questions about this addendum, please contact the City Clerk or our office.

Sincerely,
THOMPSON ENGINEERING, INC.



Charles Weber, P.E.
Senior Engineer

Enclosures

SIGNED: _____

Name of Bidder

Contractor's Representative

Date

LINE NO.	ITEM NO.	DESCRIPTION	RESTORE GRANT QUANTITY	CITY PROJECT QUANTITY	TOTAL QUANTITY	UNIT	UNIT PRICE	AMOUNT BID
BASE BID:								
1	201A-002	CLEARING AND GRUBBING (MAXIMUM ALLOWABLE BID \$ 8,000 PER ACRE) (APPROXIMATELY 12.0 ACRES)	0.8	0.2	1	LUMP SUM	\$	\$
2	206C-000	REMOVING CONCRETE SIDEWALK	2633	1096	3729	SQUARE YARD	\$	\$
3	206C-010	REMOVING CONCRETE DRIVEWAY	287	17	304	SQUARE YARD	\$	\$
4	206C-017	REMOVING CONCRETE PAD	0	18	18	SQUARE YARD	\$	\$
5	206D-000	REMOVING PIPE	2795	0	2795	LINEAR FOOT	\$	\$
6	206D-002	REMOVING CURB	189	882	1071	LINEAR FOOT	\$	\$
7	206D-003	REMOVING CURB AND GUTTER	83	45	128	LINEAR FOOT	\$	\$
8	206D-011	REMOVING FENCE	0	304	304	LINEAR FOOT	\$	\$
9	206E-000	REMOVING HEADWALLS	47	0	47	EACH	\$	\$
10	206E-002	REMOVING JUNCTION BOXES	2	0	2	EACH	\$	\$
11	209A-000	MAILBOX RESET, SINGLE	16	0	16	EACH	\$	\$
12	209A-002	MAILBOX RESET, MULTIPLE	2	0	2	EACH	\$	\$
13	210A-000	UNCLASSIFIED EXCAVATION	4556	2421	6977	CUBIC YARD	\$	\$
14	210D-020	BORROW EXCAVATION (LOOSE TRUCKBED MEASUREMENT)(A2 OR BETTER)	10932	4190	15122	CUBIC YARD	\$	\$
15	214A-000	STRUCTURE EXCAVATION	1636	664	2300	CUBIC YARD	\$	\$
16	214B-001	FOUNDATION BACKFILL, COMMERCIAL	677	261	938	CUBIC YARD	\$	\$
17	230A-000	ROADBED PROCESSING	70	0	70	ROADBED STATION	\$	\$
18	301A-008	CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS	4800	4565	9365	SQUARE YARD	\$	\$
19	301A-012	CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS	16307	0	16307	SQUARE YARD	\$	\$
20	401A-000	BITUMINOUS TREATMENT A	21106	4565	25671	SQUARE YARD	\$	\$
21	405A-000	TACK COAT	6440	758	7198	GALLON	\$	\$
22	408A-052	PLANING EXISTING PAVEMENT (APPROXIMATELY 1.10" THRU 2.0" THICK)	8858	3439	12297	SQUARE YARD	\$	\$
23	410H-000	MATERIAL REMIXING DEVICE	1	0	1	EACH	\$	\$
24	424A-340	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B	500	306	806	TON	\$	\$
25	424A-360	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	4657	490	5147	TON	\$	\$
26	424B-651	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	1852	217	2069	TON	\$	\$
27	424B-655	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, PATCHING, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	251	12	263	TON	\$	\$
28	424B-657	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, LEVELING, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	996	0	996	TON	\$	\$

REVISION NO. 2 - ISSUED FOR BID

LINE NO.	ITEM NO.	DESCRIPTION	RESTORE GRANT QUANTITY	CITY PROJECT QUANTITY	TOTAL QUANTITY	UNIT	UNIT PRICE	AMOUNT BID
29	424B-681	SUPERPAVE BITUMINOUS CONCRETE LOWER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	1930	0	1930	TON	\$	\$
30	430B-040	AGGREGATE SURFACING (CRUSHED AGGREGATE BASE, TYPE B)	1698	500	2198	TON	\$	\$
31	450A-007	PLAIN CEMENT CONCRETE PAVEMENT, 12 INCHES THICK	665	0	665	SQUARE YARD	\$	\$
32	516D-000	PEDESTRIAN BRIDGE	1	0	1	LUMP SUM	\$	\$
33	530A-001	18" ROADWAY PIPE (CLASS 3 R.C.)	218	18	236	LINEAR FOOT	\$	\$
34	530B-014	36" SPAN, 23" RISE ROADWAY PIPE (CLASS 3 R.C.) (EXTENSION)	0	18	18	LINEAR FOOT	\$	\$
35	532A-030	12" SLOTTED DRAIN PIPE	0	40	40	LINEAR FOOT	\$	\$
36	532A-032	18" SLOTTED DRAIN PIPE	100	60	160	LINEAR FOOT	\$	\$
37	533A-855	12" STORM SEWER PIPE	0	125	125	LINEAR FOOT	\$	\$
38	533A-097	15" STORM SEWER PIPE (CLASS 3 R.C.)	0	24	24	LINEAR FOOT	\$	\$
39	533A-098	18" STORM SEWER PIPE (CLASS 3 R.C.)	1546	90	1636	LINEAR FOOT	\$	\$
40	533A-099	24" STORM SEWER PIPE (CLASS 3 R.C.)	577	864	1441	LINEAR FOOT	\$	\$
41	533A-900	4" STORM SEWER PIPE (PVC)	22	0	22	LINEAR FOOT	\$	\$
42	533B-099	29" SPAN, 18" RISE STORM SEWER PIPE (CLASS 3 R.C.)	152	0	152	LINEAR FOOT	\$	\$
43	533B-100	36" SPAN, 23" RISE STORM SEWER PIPE (CLASS 3 R.C.)	13	0	13	LINEAR FOOT	\$	\$
44	535B-088	22" SPAN, 14" RISE SIDE DRAIN PIPE (CLASS 3 R.C.)	904	0	904	LINEAR FOOT	\$	\$
45	535B-090	18" SPAN, 11" RISE SIDE DRAIN PIPE (CLASS 3 R.C.)	56	0	56	LINEAR FOOT	\$	\$
46	535B-091	29" SPAN, 18" RISE SIDE DRAIN PIPE (CLASS 3 R.C.)	1532	0	1532	LINEAR FOOT	\$	\$
47	600A-000	MOBILIZATION	1	0	1	LUMP SUM	\$	\$
48	602A-000	RIGHT OF WAY MARKERS	9	0	9	EACH	\$	\$
49	608A-000	SEPARATION GEOTEXTILE	4800	4565	9365	SQUARE YARD	\$	\$
50	610A-004	LOOSE RIPRAP, CLASS 2, 24" THICK	0	11	11	SQUARE YARD	\$	\$
51	610D-003	FILTER BLANKET, GEOTEXTILE	0	16	16	SQUARE YARD	\$	\$
52	614A-000	SLOPE PAVING	1	0	1	CUBIC YARD	\$	\$
53	618A-000	CONCRETE SIDEWALK, 4" THICK	568	79	647	SQUARE YARD	\$	\$
54	618A-001	CONCRETE SIDEWALK, 6" THICK	1113	224	1337	SQUARE YARD	\$	\$
55	618B-003	CONCRETE DRIVEWAY, 6" THICK (INCLUDES WIRE MESH)	455	0	455	SQUARE YARD	\$	\$
56	618C-001	DETECTABLE WARNING SURFACE	372	210	582	SQUARE FOOT	\$	\$
57	618C-002	DIRECTIONAL TACTILE WALKING SURFACE INDICATORS	400	0	400	SQUARE FOOT	\$	\$

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LINE NO.	ITEM NO.	DESCRIPTION	RESTORE GRANT QUANTITY	CITY PROJECT QUANTITY	TOTAL QUANTITY	UNIT	UNIT PRICE	AMOUNT BID
58	618D-000	CURB RAMP	393	110	503	SQUARE YARD	\$	\$
59	619A-000	12" ROADWAY PIPE END TREATMENT, CLASS 1	0	1	1	EACH	\$	\$
60	619A-001	15" ROADWAY PIPE END TREATMENT, CLASS 1	0	1	1	EACH	\$	\$
61	619A-002	18" ROADWAY PIPE END TREATMENT, CLASS 1	5	0	5	EACH	\$	\$
62	619A-101	18" SIDE DRAIN PIPE END TREATMENT, CLASS 1	5	1	6	EACH	\$	\$
63	619A-202	24" ROADWAY PIPE END TREATMENT, CLASS 1 (DOUBLE LINE)	0	1	1	EACH	\$	\$
64	619B-018	36" SPAN, 23" RISE ROADWAY PIPE END TREATMENT, CLASS 1	0	1	1	EACH	\$	\$
65	619B-115	18" SPAN, 11" RISE SIDE DRAIN PIPE END TREATMENT, CLASS 1	2	0	2	EACH	\$	\$
66	619B-116	22" SPAN, 14" RISE SIDE DRAIN PIPE END TREATMENT, CLASS 1	30	0	30	EACH	\$	\$
67	619B-117	29" SPAN, 18" RISE SIDE DRAIN PIPE END TREATMENT, CLASS 1	38	0	38	EACH	\$	\$
68	619B-267	29" SPAN, 18" RISE ROADWAY PIPE END TREATMENT, CLASS 1 (DOUBLE LINE)	1	0	1	EACH	\$	\$
69	620A-000	MINOR STRUCTURE CONCRETE	1	1	2	CUBIC YARD	\$	\$
70	621A-011	JUNCTION BOXES, TYPE 1 OR 1P	37	0	37	EACH	\$	\$
71	621A-019	JUNCTION BOXES, TYPE 1 OR 2P	2	0	2	EACH	\$	\$
72	621C-140	INLETS, OPEN THROAT	4	0	4	EACH	\$	\$
73	621E-004	MANHOLES, TYPE L OR M (STORM)	3	2	5	EACH	\$	\$
74	621H-001	INLET TOPS, CURB & GUTTER	24	0	24	EACH	\$	\$
75	621H-002	INLET TOPS, CURB & GUTTER (DOUBLE)	7	0	7	EACH	\$	\$
76	621H-003	INLET TOPS, GUTTER	3	0	3	EACH	\$	\$
77	623A-000	CONCRETE GUTTER	369	0	369	LINEAR FOOT	\$	\$
78	623B-000	CONCRETE CURB, TYPE N	1937	898	2835	LINEAR FOOT	\$	\$
79	623B-001	CONCRETE CURB, TYPE N SPECIAL	209	0	209	LINEAR FOOT	\$	\$
80	623B-012	CONCRETE CURB, TYPE N (MODIFIED)	273	0	273	LINEAR FOOT	\$	\$
81	623B-150	CONCRETE CURB, TYPE RIBBON	244	0	244	LINEAR FOOT	\$	\$
82	623B-151	CONCRETE CURB, TYPE TRUCK APRON	633	0	633	LINEAR FOOT	\$	\$
83	623C-000	COMBINATION CURB & GUTTER, TYPE C	1606	95	1701	LINEAR FOOT	\$	\$
84	623C-003	COMBINATION CURB & GUTTER, TYPE C (MODIFIED)	22	8	30	LINEAR FOOT	\$	\$
85	645J-500	MANHOLE CONE RESET	4	0	4	EACH	\$	\$
86	645K-500	MANHOLE FRAME AND COVER RESET	4	0	4	EACH	\$	\$

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LINE NO.	ITEM NO.	DESCRIPTION	RESTORE GRANT QUANTITY	CITY PROJECT QUANTITY	TOTAL QUANTITY	UNIT	UNIT PRICE	AMOUNT BID
87	650A-000	TOPSOIL	1890	2100	3990	CUBIC YARD	\$	\$
88	654A-001	SOLID SODDING (BERMUDA)	31200	4700	35900	SQUARE YARD	\$	\$
89	665A-000	TEMPORARY SEEDING	7	1	8	ACRE	\$	\$
90	665B-001	TEMPORARY MULCHING	21	3	24	TON	\$	\$
91	665E-000	POLYETHYLENE	1000	500	1500	SQUARE YARD	\$	\$
92	665G-000	SAND BAGS	500	250	750	EACH	\$	\$
93	665I-000	TEMPORARY RIPRAP, CLASS 2	500	250	750	TON	\$	\$
94	665J-002	SILT FENCE	13728	1000	14728	LINEAR FOOT	\$	\$
95	665N-001	TEMPORARY COARSE AGGREGATE,ALDOT NUMBER 4	600	300	900	TON	\$	\$
96	665O-001	SILT FENCE REMOVAL	13728	1000	14728	LINEAR FOOT	\$	\$
97	665P-005	INLET PROTECTION, STAGE 3 OR 4	80	0	80	EACH	\$	\$
98	665Q-002	WATTLE	3000	140	3140	LINEAR FOOT	\$	\$
99	666A-001	PEST CONTROL TREATMENT	7	1	8	ACRE	\$	\$
100	674A-000	CONSTRUCTION SAFETY FENCE	1000	500	1500	LINEAR FOOT	\$	\$
101	680A-001	GEOMETRIC CONTROLS	1	0	1	LUMP SUM	\$	\$
102	701A-227	SOLID WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	3	1	4	MILE	\$	\$
103	701A-230	SOLID YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	4	1	5	MILE	\$	\$
104	701A-244	BROKEN YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	2	0	2	MILE	\$	\$
105	701B-207	DOTTED, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	3356	0	3356	LINEAR FOOT	\$	\$
106	701C-003	SOLID TEMPORARY TRAFFIC STRIPE (PAINT)	13	0	13	MILE	\$	\$
107	701D-005	SOLID TRAFFIC STRIPE REMOVED	7	0	7	MILE	\$	\$
108	703A-002	TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A	8911	1391	10302	SQUARE FOOT	\$	\$
109	703B-002	TRAFFIC CONTROL LEGENDS, CLASS 2, TYPE A	292	45	337	SQUARE FOOT	\$	\$
110	703D-002	TEMPORARY TRAFFIC CONTROL MARKINGS (PAINT)	4456	696	5152	SQUARE FOOT	\$	\$
111	705A-030	PAVEMENT MARKERS, CLASS A-H, TYPE 2-C	214	0	214	EACH	\$	\$
112	705A-031	PAVEMENT MARKERS, CLASS A-H, TYPE 1-A	40	0	40	EACH	\$	\$
113	705A-032	PAVEMENT MARKERS, CLASS A-H, TYPE 1-B	70	0	70	EACH	\$	\$
114	705A-037	PAVEMENT MARKERS, CLASS A-H, TYPE 2-D	188	7	195	EACH	\$	\$
115	705A-038	PAVEMENT MARKERS, CLASS A-H, TYPE 2-E	11	0	11	EACH	\$	\$

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LINE NO.	ITEM NO.	DESCRIPTION	RESTORE GRANT QUANTITY	CITY PROJECT QUANTITY	TOTAL QUANTITY	UNIT	UNIT PRICE	AMOUNT BID	
116	707F-001	FLEXIBLE DELINEATOR POST WITH BASE, YELLOW	21	3	24	EACH	\$	\$	
117	707H-000	RAISED CURB CHANNELIZER, YELLOW	462	0	462	LINEAR FOOT	\$	\$	
118	710A-160	CLASS 10 ALUMINUM FLAT SIGN PANELS 0.08" THICK (TYPE XI BACKGROUND)	183	0	183	SQUARE FOOT	\$	\$	
119	710A-165	CLASS 10 ALUMINUM FLAT SIGN PANELS 0.08" THICK (TYPE XI BACKGROUND, FLUORESCENT)	183	22	205	SQUARE FOOT	\$	\$	
120	710A-170	CLASS 4, ALUMINUM FLAT SIGN PANELS 0.08" THICK (TYPE IV BACKGROUND)	206	0	206	SQUARE FOOT	\$	\$	
121	710B-021	ROADWAY SIGN POST (#3 U CHANNEL, GALVANIZED STEEL OR 2", 14 GA SQUARE TUBULAR STEEL)	966	28	994	LINEAR FOOT	\$	\$	
122	710C-000	REMOVAL OF EXISTING ROADWAY SIGNS	1	0	1	LUMP SUM	\$	\$	
123	711A-000	ROADWAY SIGN RELOCATION	1	0	1	LUMP SUM	\$	\$	
124	740B-000	CONSTRUCTION SIGNS	750	500	1250	SQUARE FOOT	\$	\$	
125	740D-000	CHANNELIZING DRUMS	500	250	750	EACH	\$	\$	
126	740E-000	CONES (36 INCHES HIGH)	250	125	375	EACH	\$	\$	
127	740F-001	BARRICADES, TYPE II	10	50	60	EACH	\$	\$	
128	740F-002	BARRICADES, TYPE III	10	0	10	EACH	\$	\$	
129	740I-002	WARNING LIGHTS, TYPE B	20	50	70	EACH	\$	\$	
130	740M-001	BALLAST FOR CONE	250	125	375	EACH	\$	\$	
131	741C-010	PORTABLE SEQUENTIAL ARROW AND CHEVRON SIGN UNIT	2	0	2	EACH	\$	\$	
132	742A-001	PORTABLE CHANGEABLE MESSAGE SIGN, TYPE 2	2	0	2	EACH	\$	\$	
133	999A-000	WORK OF SIMILAR NATURE UTILIZING BID ITEMS AND UNIT PRICES TO BE DETERMINED BY ENGINEER	0	1	1	LUMP SUM	\$ 250,000.00	\$ 250,000.00	
134	TOTAL BID AMOUNT, BASE BID (ADD "AMOUNT BID" COLUMN FIGURES FROM LINES 1 THROUGH 133):							\$	

Supplemental Specification No. 516-18

SUBJECT: Pedestrian Bridges

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2018 Edition, is hereby amended as follows:

Add the following:

SECTION 516 PEDESTRIAN BRIDGES

516.01 Description.

This Section shall cover the work of construction pedestrian bridges in accordance with the details shown on the plans.

516.02 Materials.

All materials incorporated in the structure shall be new except where otherwise specified on the plans or in the proposal.

- All requirements for Structural Portland Cement Concrete, Section 501, shall apply to mass concrete members, except where otherwise indicated by specific requirements noted by plan details.
- Reinforcing steel shall meet the requirements of Section 502 and plan details.

516.03 Construction Requirements.

(a) General.

1. Pedestrian bridges shall be constructed in accordance with the lines, grades, dimensions, and other details shown on the plans and in conformity with these specifications.

(b) Substructures.

1. Foundations shall be prepared in accordance with the plans and Section 503.
2. Concrete Substructures shall be prepared in accordance with the plans and Sections 501, 502, and 508.
3. Piling shall be prepared in accordance with the plans.

(c) Superstructures.

1. All framing, decking, and railing shall be prepared in accordance with the plans.

516.04 Method of Measurement.

Each accepted Pedestrian Bridge unit will be measured for payment as a lump sum unit. Partial payments will be allowed on monthly estimates in accordance with Subitem 516.05(a).

516.05 Basis of Payment.

(a) Unit Price Coverage.

Payment for each accepted Pedestrian Bridge unit will be made at the contract lump sum price bid for each unit, complete in place, including all timber piling, timber framing, timber decking, timber railing, concrete transition slabs, concrete foundation walls, concrete footings, mounting hardware, fasteners, temporary formwork, excavation, subgrade preparation, and for all labor, equipment, tools, and incidentals necessary to complete the work.

Partial payments will be made on monthly estimates based on the percentage of total work performed on each unit as estimated by the Engineer.

(b) Payment will be made under Item No.:

The Pedestrian Bridge unit will be paid for at the contract lump sum price bid for each unit, complete in place, which shall be full compensation for all required submittals and for furnishing all materials, fabrication, erection, construction, excavation, utilization and disposal of surplus excavated material, equipment, tools, labor, and incidentals necessary to complete this item of work.

516-D Pedestrian Bridge - lump sum

Supplemental Specification No. 618-18

SUBJECT: Detectable Warning Surfaces, Directional Indicators and Curb Ramps

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2018 Edition, is hereby amended as follows:

SECTION 618 CONCRETE SIDEWALKS AND DRIVEWAYS

618.01 Description.

Delete the subarticle and add the following:

This Section shall cover the work of constructing a portland cement concrete sidewalk or driveway. Sidewalks and driveways shall be constructed to the lines, grades, and typical cross-sections shown on the plans with or without reinforcement and in one course on a prepared subgrade. "Subgrade" in this Section shall mean the prepared foundation on which the sidewalk or driveway is constructed.

This Section shall also cover the work of installing detectable warning surfaces and directional tactile walking surface indicators as shown on the plans.

618.02 Materials

Delete the subarticle and add the following:

All materials furnished for use shall comply with the appropriate requirements of Division 800, Materials, and the following:

- Concrete shall meet the requirements for a Class A concrete as provided in Section 501.
- Reinforcing steel shall meet the requirements of Section 502 and plan details.
- Detectable Warning Surfaces shall be selected from the Department's List II-25, Detectable Warning Devices in the MSDSAR.
- Directional Tactile Walking Surface Indicators must consist of materials intended for exterior use subject to routine pedestrian traffic. Use directional indicators consisting of weather-resistant tiles, pavers or panels that are cast into concrete. Do not form directional indicators in wet concrete. Products must be approved by the City or Engineer.

618.03 Construction Requirements.

(j) Truncated Dome Retrofit

Delete the subarticle and add the following:

(j) Curb and Gutter Transitions

The Contractor shall make any necessary transitions in the curb and gutter to match the surface of the curb ramp. These transitions shall be made according to the plan details or as directed by the Engineer.

(k) Detectable Warning Surface

Detectable warning surfaces shall be installed according to the details shown in the plans and the manufacturer's recommendations.

(l) Directional Tactile Walking Surface Indicator

Directional indicators shall be installed according to the details shown in the plans and the manufacturer's recommendations.

618.04 Method of Measurement.

Delete the second paragraph and add the following:

Detectable warning surfaces and directional indicators shall be measured per square foot, complete in place.

Curb ramps shall be measured in square yards and shall include the areas within the pay limits shown on the plans.

618.05 Basis of Payment.

(a) Unit Price Coverage.

The following paragraphs shall be added.

Payment for detectable warning surfaces and directional indicators shall include preparation of the underlying surface, labor, equipment, tools, and incidentals necessary to complete the work.

Payment for curb ramps shall include all excavation, subgrade preparation, grading, making transitions in the curb and gutter, construction of joints, and for all labor, equipment, tools, and incidentals necessary to complete the work.

(b) Payment will be made under Item No.:

Delete the last pay item and add the following pay items:

- 618-C Detectable Warning Surface (or Directional Tactile Walking Surface Indicators) - per square foot
- 618-D Curb Ramp - per square yard

Supplemental Specification No. 707-18

SUBJECT: Channelizing Curbs and Delineators

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2018 Edition, is hereby amended as follows:

SECTION 707 DELINEATORS AND HAZARD MARKERS

707.02 Materials

Article 707.02 shall be modified by adding the following paragraph:

Flexible delineator posts with bases and raised curb channelizers shall be furnished in compliance with the requirements of Division 800, Materials and the requirements shown on the plans. A list of acceptable products is given in List IV-4, Miscellaneous Traffic Control Devices in the MSDSAR.

707.03 Construction Requirements.

(a) Delineator Installations.

Subarticle 707.03(a) shall be modified by adding the following Items 5 and 6.

5. Flexible Delineator Post with Base.

A flexible delineator post with base shall be installed according to the manufacturer's recommendations.

6. Raised Curb Channelizer.

A raised curb channelizer shall be installed according to the manufacturer's recommendations.

707.04 Method of Measurement.

The following paragraphs shall be added:

Flexible delineator post with base will be measured per each for the number installed. There will be no measurement of posts or bases that the Contractor must install to replace any that are damaged or missing

Raised curb channelizer will be measured per linear foot for the quantity installed. There will be no measurement of posts or curb that the Contractor must install to replace any that are damaged or missing.

707.05 Basis of Payment.

(a) Unit Price Coverage.

The following paragraphs shall be added.

The number of flexible delineator posts with bases ordered and accepted, measured

as noted above, will be paid for at the unit price for installation. This price shall include the post, base, anchors, hardware, and all materials, equipment, tools, labor, and incidentals necessary to complete the work.

Raised curb channelizers, measured as noted above, will be paid for at the unit price for installation. This price shall include the post, curb, anchors, hardware, and all materials, equipment, tools, labor, and incidentals necessary to complete the work.

(b) Payment will be made under Item No.:

The following pay items shall be added:



707-F Flexible Delineator Post with Base, Color - per each.

707-H Raised Curb Channelizer, Color - per linear foot.

SHEET NO	DESCRIPTION
1	TITLE SHEET
△ △ 1-A	INDEX TO SHEETS
1-B THRU 1-C	INDEX TO SPECIAL AND STANDARD DRAWINGS
1-D THRU 1-E	PLANS LEGEND AND ABBREVIATIONS SHEETS
1-F THRU 1-G	PROJECT KEY SHEETS
1-H THRU 1-I	PRIMARY SURVEY CONTROL AND GEOMETRIC LAYOUT SHEETS
1-J	OMIT
1-K THRU 1-L	HORIZONTAL ALIGNMENT DATA SHEETS
△ △ 2, 2-A THRU 2-M	TYPICAL SECTIONS
2-N	PROJECT NOTES
△ 2-O	WOODEN PEDESTRIAN BOARDWALK STRUCTURAL PROJECT NOTES
2-P	ALDOT STANDARD NOTES
2-Q	GENERAL TRAFFIC CONTROL PLAN NOTES
△ △ 3 THRU 3-J	SUMMARY OF QUANTITIES
4 THRU 14-A	PLAN AND PROFILE SHEETS
△ 15	WOODEN PEDESTRIAN BOARDWALK PLAN AND ELEVATION
△ 16	WOODEN PEDESTRIAN BOARDWALK SECTIONS AND DETAILS
17 THRU 19	OMIT
△ 20 THRU 27	PAVING LAYOUT SHEETS
28 THRU 29	OMIT
30 THRU 37	STRIPING LAYOUT SHEETS
38 THRU 39	OMIT
△ 40 THRU 47	SIGNING LAYOUT SHEETS
48 THRU 49	OMIT
50 THRU 60-A	UTILITY PLAN AND PROFILE SHEETS
61 THRU 68	OMIT
69	EROSION CONTROL PLAN LEGEND SHEET
70 THRU 77	EROSION CONTROL PLAN SHEETS
78 THRU 79	OMIT
80 THRU 95	DRAINAGE SECTIONS
96 THRU 99	OMIT
100	TRAFFIC CONTROL PLAN: SEQUENCE OF CONSTRUCTION
100-A THRU 100-D	TRAFFIC CONTROL PLAN: DETAIL SHEETS
101	TRAFFIC CONTROL PLAN: ADVANCE WARNING SIGN LAYOUT
102 THRU 149	OMIT
150 THRU 184	CROSS SECTIONS - CANAL RD E
185 THRU 189	OMIT
190 THRU 193	CROSS SECTIONS - TRAIL CONNECTION

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO. 2	ISSUE FOR BID, REVISION 2	5/4/22	CDW
REVISION NO. 1	ISSUE FOR BID, REVISION 1	4/27/22	CDW

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 ORANGE BEACH, ALABAMA
 THOMPSON ENGINEERING, INC.
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 ORANGE BEACH, ALABAMA 36561
 THOMPSON ENGINEERING
 PREPARED BY:

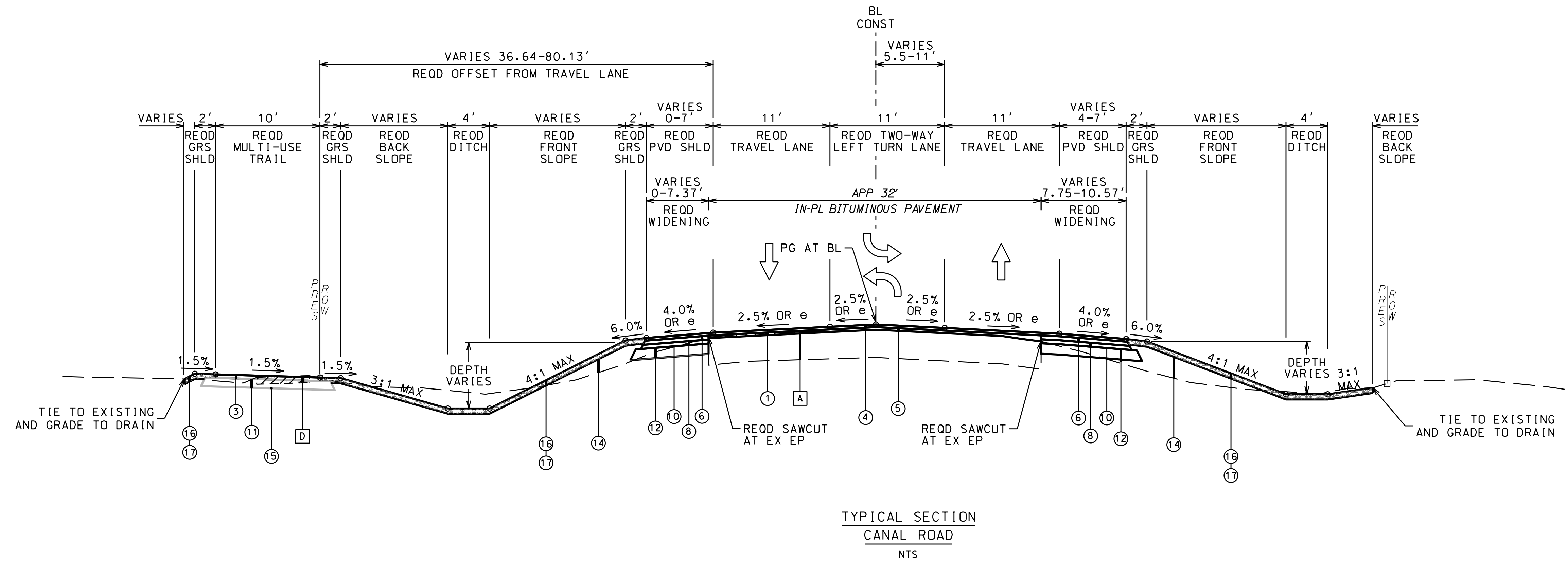
CANAL ROAD IMPROVEMENTS
 FROM SR-161 TO WILSON BOULEVARD
 INDEX TO SHEETS

JOB NO.: 20-1101-0085
 DATE: DEC 2021
 REVISION NO.: --

RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00

NOTE: ALL ITEMS OF WORK PERFORMED ON CITY PROPERTY AND OUTSIDE OF CANAL ROAD RIGHT-OF-WAY SHALL BE MEASURED AND PAID FOR UNDER THE CITY PROJECT PAY ITEMS AND EXCLUDED FROM THE RESTORE GRANT PROJECT PAY ITEMS.

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TYPICAL SECTION
CANAL ROAD
NTS
STA 686+00.00 (BEGIN LANE TRANSITION) TO STA 688+50.00 (END LANE TRANSITION & END PROFILE GRADE CORRECTIONS)

EXISTING MATERIALS LEGEND	
A	IN PLACE: BITUMINOUS PAVEMENT (RETAIN, PLANE, LEVEL AND OVERLAY)
B	IN PLACE: BITUMINOUS PAVEMENT (RETAIN AND OVERLAY)
D	IN PLACE: CONCRETE SIDEWALK (REMOVE)
REQUIRED MATERIALS LEGEND	
1	REOD: (408A-052) PLANING EXISTING PAVEMENT (APPROXIMATELY 1.10" THRU 2.0" THICK)
3	REOD: (424A-340) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B (220 LBS/SY)
4	REOD: (424A-360) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (165 LBS/SY)
5	REOD: (424A-366) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, LEVELING, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (APP 0-250 LBS/SY)
6	REOD: (424B-651) SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
8	REOD: (424B-681) SUPERPAVE BITUMINOUS CONCRETE LOWER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
10	REOD: (401A-000) BITUMINOUS TREATMENT A
11	REOD: (301A-008) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
12	REOD: (301A-012) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
14	REOD: (210A-000) UNCLASSIFIED EXCAVATION OR (210D-020) BORROW EXCAVATION (A-2 OR BETTER)(LOOSE TRUCKBED MEASUREMENT)
15	REOD: (608A-000) SEPERATION GEOTEXTILE
16	REOD: (650A-000) TOPSOIL
17	REOD: (654A-001) SOLID SODDING (BERMUDA)

NOTES:

1. THE IN-PLACE PAVED SHOULDERS IN THIS SECTION WILL NOT REQUIRE REMOVAL PRIOR TO WIDENING. SHOULD IT BECOME APPARENT DURING CONSTRUCTION THAT THE THICKNESS OF THE ASPHALT SHOULDER IS LESS THAN 5 INCHES, THE SHOULDER SHOULD BE SAWCUT AND REMOVED PRIOR TO WIDENING.
2. SEE PAVING LAYOUTS ON SHEET 23.
3. SEE STRIPING LAYOUTS ON SHEET 33.

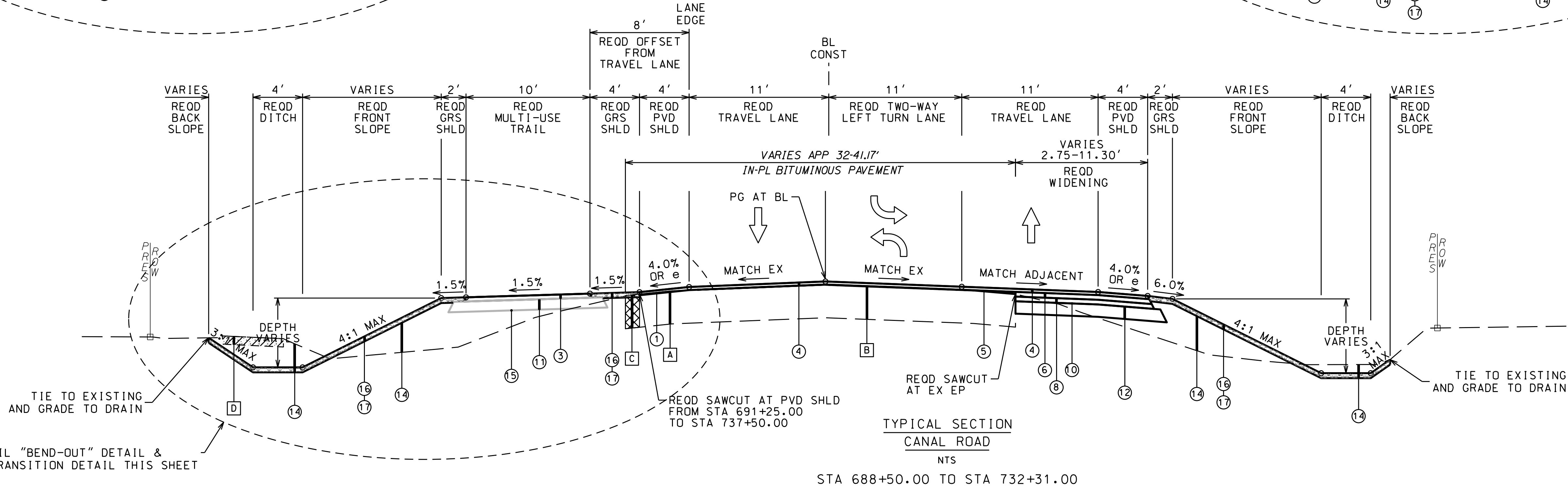
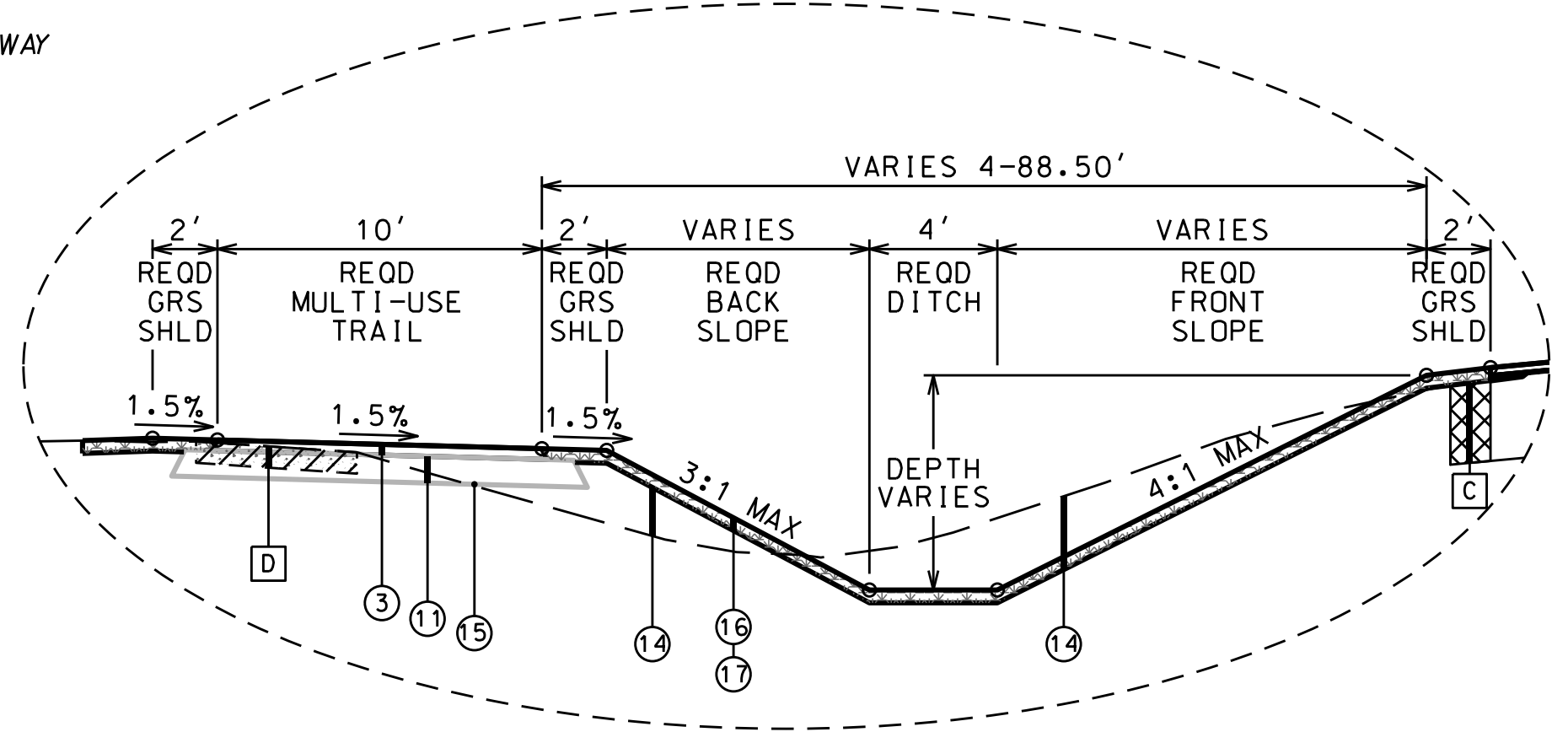
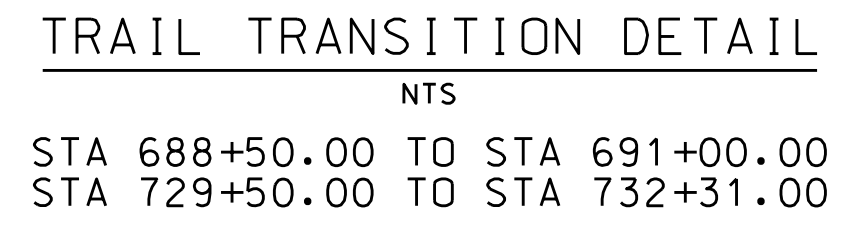
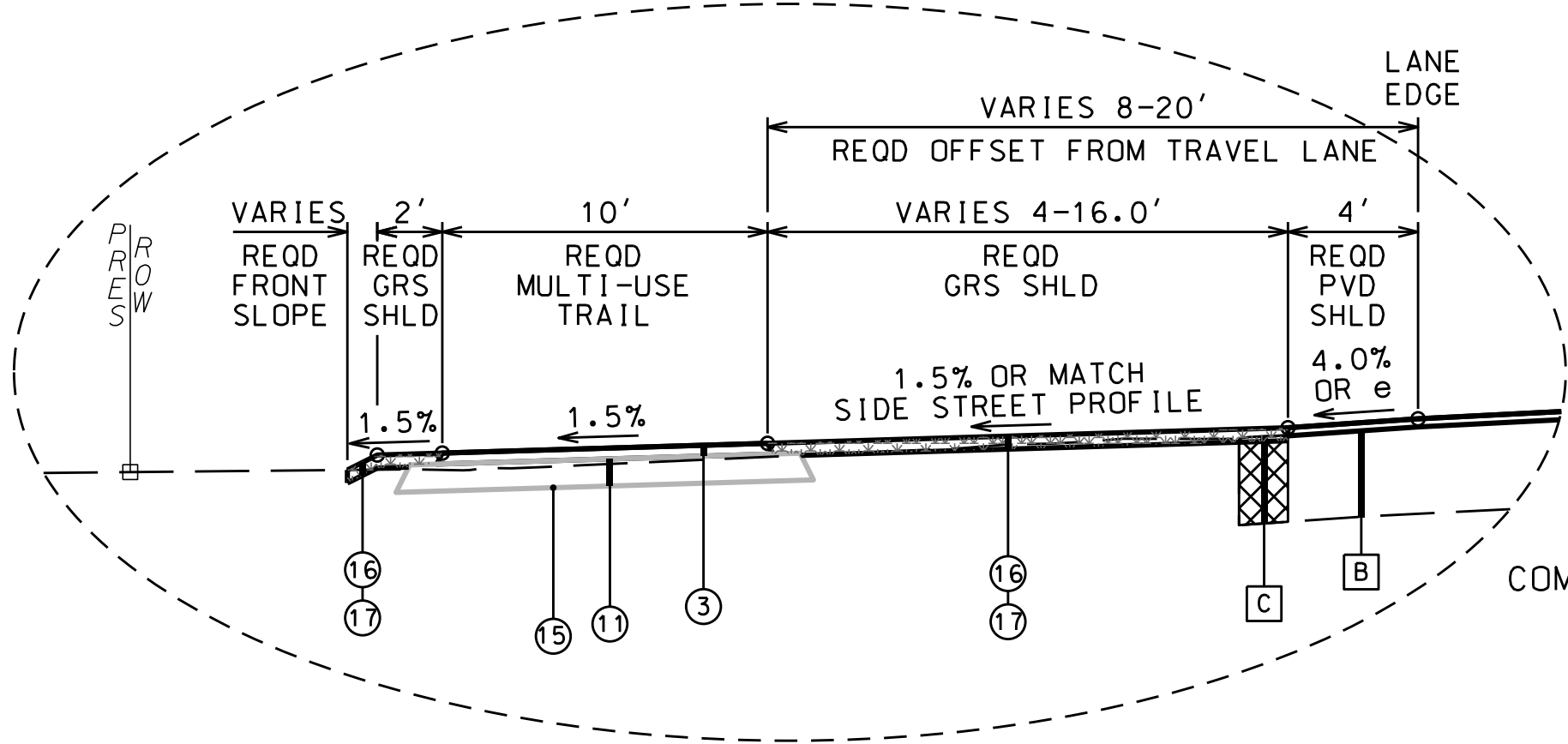


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RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00

NOTE: ALL ITEMS OF WORK PERFORMED ON CITY PROPERTY AND OUTSIDE OF CANAL ROAD RIGHT-OF-WAY SHALL BE MEASURED AND PAID FOR UNDER THE CITY PROJECT PAY ITEMS AND EXCLUDED FROM THE RESTORE GRANT PROJECT PAY ITEMS.



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EXISTING MATERIALS LEGEND	
A	IN PLACE: BITUMINOUS PAVEMENT (RETAIN, PLANE, LEVEL AND OVERLAY)
B	IN PLACE: BITUMINOUS PAVEMENT (RETAIN AND OVERLAY)
C	IN PLACE: BITUMINOUS PAVEMENT (SAWCUT AND REMOVE)
D	IN PLACE: CONCRETE SIDEWALK (REMOVE)
REQUIRED MATERIALS LEGEND	
①	REOD: (408A-052) PLANING EXISTING PAVEMENT (APPROXIMATELY 1.10" THRU 2.0" THICK)
③	REOD: (424A-340) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B (220 LBS/SY)
④	REOD: (424A-360) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (165 LBS/SY)
⑤	REOD: (424A-366) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, LEVELING, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (APP 0-250 LBS/SY)
⑥	REOD: (424B-651) SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
⑧	REOD: (424B-681) SUPERPAVE BITUMINOUS CONCRETE LOWER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
⑩	REOD: (401A-000) BITUMINOUS TREATMENT A
⑪	REOD: (301A-008) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
⑫	REOD: (301A-012) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
⑭	REOD: (210A-000) UNCLASSIFIED EXCAVATION OR (210D-020) BORROW EXCAVATION (A-2 OR BETTER)(LOOSE TRUCKBED MEASUREMENT)
⑮	REOD: (608A-000) SEPERATION GEOTEXTILE
⑯	REOD: (650A-000) TOPSOIL
⑰	REOD: (654A-001) SOLID SODDING (BERMUDA)

- NOTES:**
1. THE IN-PLACE PAVED SHOULDER ON THE LT SIDE SHALL BE SAWCUT AND REMOVED TO MATCH THE PAVING LAYOUT FOR A 4' WIDE SHOULDER.
 2. THE IN-PLACE PAVED SHOULDER ON THE RT SIDE WILL NOT REQUIRE REMOVAL PRIOR TO WIDENING. SHOULD IT BECOME APPARENT DURING CONSTRUCTION THAT THE THICKNESS OF THE ASPHALT SHOULDER IS LESS THAN 5 INCHES, THE SHOULDER SHOULD BE SAWCUT AND REMOVED PRIOR TO WIDENING.
 3. A 12' WIDE WOODEN BOARDWALK SHALL BE CONSTRUCTED IN PLACE OF THE 10' WIDE ASPHALT TRAIL FROM STA 731+15.00 TO STA 731+45.00. SEE DETAILS ON SHEETS ?-?.
 4. SEE PAVING LAYOUTS ON SHEETS 23-25.
 5. SEE STRIPING LAYOUTS ON SHEETS 33-35.

CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD
TYPICAL SECTIONS

CITY OF ORANGE BEACH, ALABAMA

ORANGE BEACH, ALABAMA

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
4751 MAIN STREET, SUITE F-712
ORANGE BEACH, ALABAMA 36561
(251) 378-6180

DATE : DEC 2021

JOB NO. : 20-1101-0085

REVISION NO. : ..

PREPARED BY :

DRAWN BY :

CHECKED BY :

APPROVED BY :

ISSUE FOR BID, REVISION 2

DATE : 5/4/22

BY : CDW

DATE :

DATE :

DATE :

DATE :

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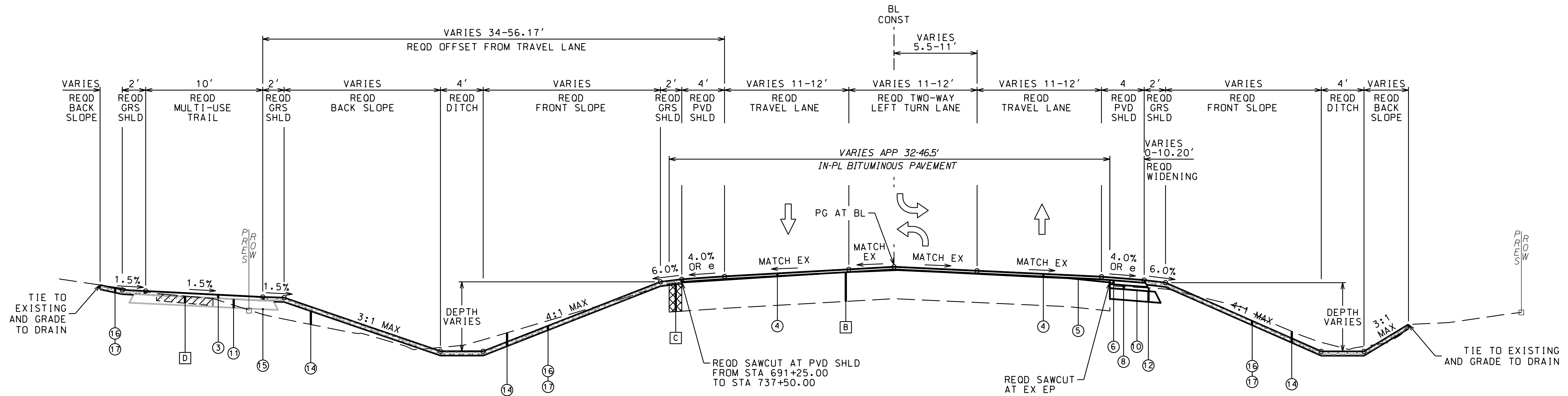
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RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00

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STA 732+31.00 (BEGIN LANE TRANSITION) TO STA 735+46.00 (END LANE TRANSITION)

EXISTING MATERIALS LEGEND	
B	IN PLACE: BITUMINOUS PAVEMENT (RETAIN AND OVERLAY)
C	IN PLACE: BITUMINOUS PAVEMENT (SAWCUT AND REMOVE)
D	IN PLACE: CONCRETE SIDEWALK (REMOVE)
REQUIRED MATERIALS LEGEND	
3	REOD: (424A-340) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B (220 LBS/SY)
4	REOD: (424A-360) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (165 LBS/SY)
5	REOD: (424A-366) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, LEVELING, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (APP 0-250 LBS/SY)
6	REOD: (424B-651) SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
8	REOD: (424B-681) SUPERPAVE BITUMINOUS CONCRETE LOWER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
10	REOD: (401A-000) BITUMINOUS TREATMENT A
11	REOD: (301A-008) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
12	REOD: (301A-012) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
14	REOD: (210A-000) UNCLASSIFIED EXCAVATION OR (210D-020) BORROW EXCAVATION (A-2 OR BETTER)(LOOSE TRUCKBED MEASUREMENT)
15	REOD: (608A-000) SEPERATION GEOTEXTILE
16	REOD: (650A-000) TOPSOIL
17	REOD: (654A-001) SOLID SODDING (BERMUDA)

NOTES:

1. THE IN-PLACE PAVED SHOULDER ON THE LT SIDE SHALL BE SAWCUT AND REMOVED TO MATCH THE PAVING LAYOUT FOR A 4' WIDE SHOULDER.
2. THE IN-PLACE PAVED SHOULDER ON THE RT SIDE WILL NOT REQUIRE REMOVAL PRIOR TO WIDENING. SHOULD IT BECOME APPARENT DURING CONSTRUCTION THAT THE THICKNESS OF THE ASPHALT SHOULDER IS LESS THAN 5 INCHES, THE SHOULDER SHOULD BE SAWCUT AND REMOVED PRIOR TO WIDENING.
3. SEE PAVING LAYOUTS ON SHEETS 25-26.
4. SEE STRIPING LAYOUTS ON SHEETS 35-36.

SHEET NO. : 2-H

CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD

CITY OF ORANGE BEACH, ALABAMA

PREPARED BY :



DATE

BY

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

TYPICAL SECTIONS

DATE : DEC 2021

JOB NO. : 20-1101-0085

APPROVED BY :

CHECKED BY :

DRAWN BY :

THOMPSON ENGINEERING, INC.
4751 MAIN STREET, SUITE F-712
ORANGE BEACH, ALABAMA 36561
(251) 378-6180

thompson ENGINEERING

APPROVED BY :

CHECKED BY :

DRAWN BY :

DATE :

JOB NO. : 20-1101-0085

REVISION NO. :

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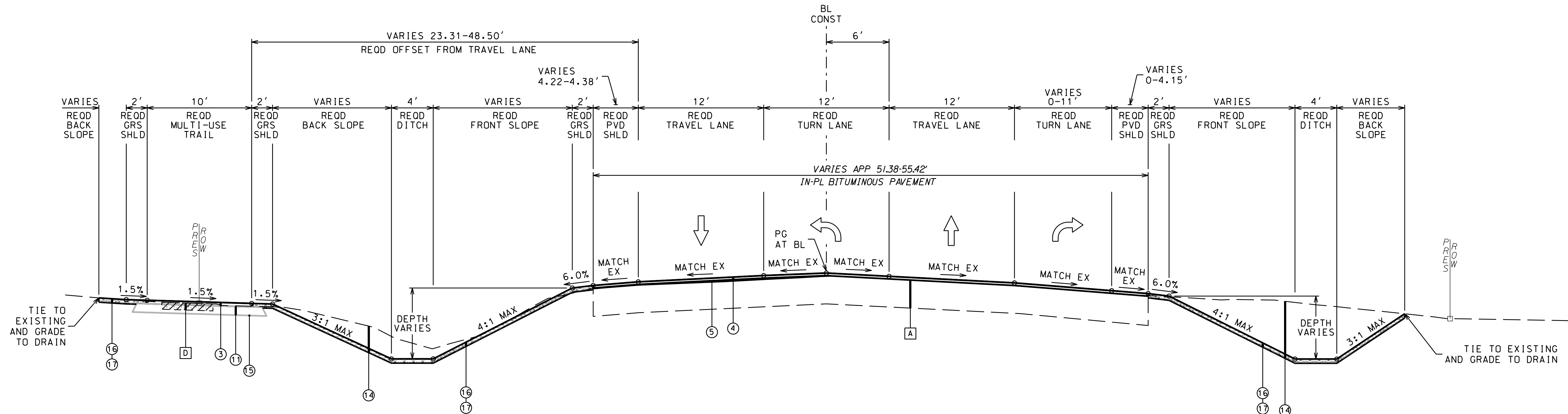
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RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00

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TYPICAL SECTION
CANAL ROAD
NTS

STA 735+46.00 TO STA 737+50.00 (END PAVING)

EXISTING MATERIALS LEGEND	
A	IN PLACE: BITUMINOUS PAVEMENT (RETAIN, PLANE, LEVEL AND OVERLAY)
D	IN PLACE: CONCRETE SIDEWALK (REMOVE)
REQUIRED MATERIALS LEGEND	
(3)	REOD: (424A-340) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B (220 LBS/SY)
(4)	REOD: (424A-360) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (165 LBS/SY)
(5)	REOD: (424A-366) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, LEVELING, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (APP 0-250 LBS/SY)
(6)	REOD: (424B-651) SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
(8)	REOD: (424B-681) SUPERPAVE BITUMINOUS CONCRETE LOWER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
(10)	REOD: (401A-000) BITUMINOUS TREATMENT A
(11)	REOD: (301A-008) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
(12)	REOD: (301A-012) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
(14)	REOD: (210A-000) UNCLASSIFIED EXCAVATION OR (210D-020) BORROW EXCAVATION (A-2 OR BETTER)(LOOSE TRUCKBED MEASUREMENT)
(15)	REOD: (608A-000) SEPERATION GEOTEXTILE
(16)	REOD: (650A-000) TOPSOIL
(17)	REOD: (654A-001) SOLID SODDING (BERMUDA)

NOTES:

1. THE IN-PLACE PAVED SHOULDER IN THIS SECTION WILL NOT REQUIRE REMOVAL PRIOR TO WIDENING. SHOULD IT BECOME APPARENT DURING CONSTRUCTION THAT THE THICKNESS OF THE ASPHALT SHOULDER IS LESS THAN 5 INCHES, THE SHOULDER SHOULD BE SAWCUT AND REMOVED PRIOR TO WIDENING.
2. SEE PAVING LAYOUTS ON SHEET 26.
3. SEE STRIPING LAYOUTS ON SHEET 36.

SHEET NO. : 2-1

CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD

CITY OF ORANGE BEACH, ALABAMA

PREPARED BY :



REVISION NO.	DESCRIPTION	DATE	BY:
2	ISSUE FOR BID, REVISION 2	5/4/22	CDW

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TYPICAL SECTIONS

JOB NO. : 20-1101-0085

DATE : DEC 2021

APPROVED BY :

DRAWN BY :

SCALE :

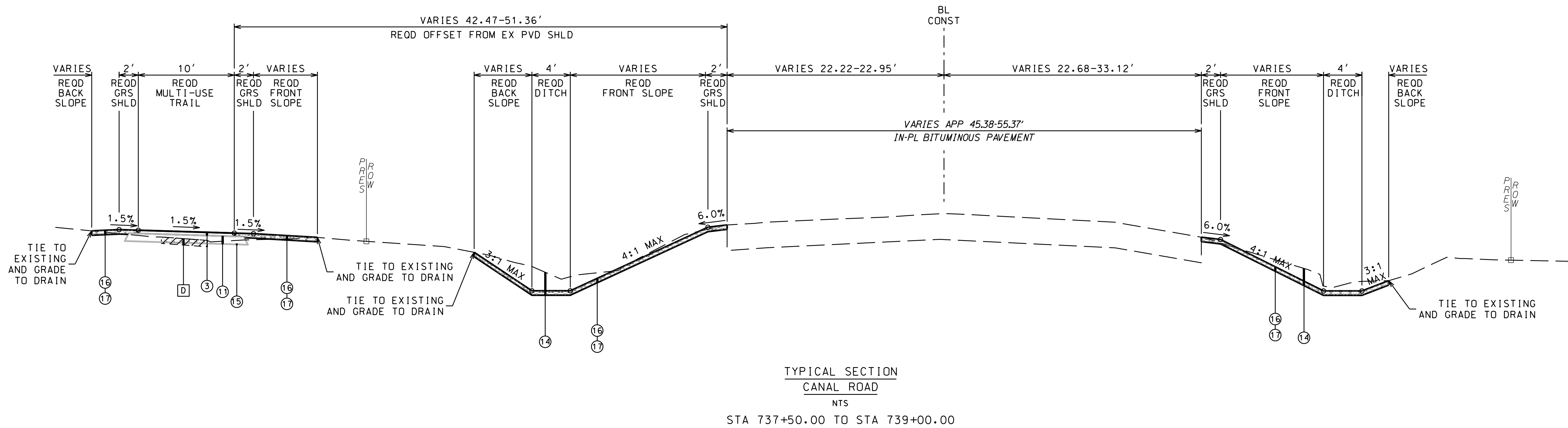
CHECKED BY :

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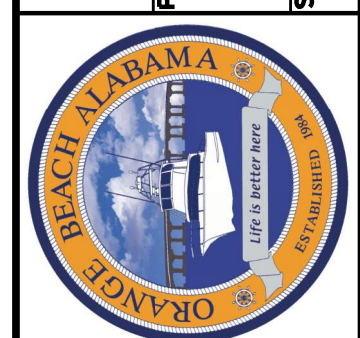
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EXISTING MATERIALS LEGEND	
D	IN PLACE: CONCRETE SIDEWALK (REMOVE)
E	IN PLACE: BITUMINOUS PAVEMENT (RETAIN)
REQUIRED MATERIALS LEGEND	
③	REOD: (424A-340) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B (220 LBS/SY)
⑪	REOD: (301A-008) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
⑭	REOD: (210A-000) UNCLASSIFIED EXCAVATION OR (210D-020) BORROW EXCAVATION (A-2 OR BETTER)(LOOSE TRUCKBED MEASUREMENT)
⑮	REOD: (608A-000) SEPERATION GEOTEXTILE
⑯	REOD: (650A-000) TOPSOIL
⑰	REOD: (654A-001) SOLID SODDING (BERMUDA)

- NOTES:
1. THE IN-PLACE PAVED SHOULDER IN THIS SECTION WILL NOT REQUIRE REMOVAL PRIOR TO WIDENING. SHOULD IT BECOME APPARENT DURING CONSTRUCTION THAT THE THICKNESS OF THE ASPHALT SHOULDER IS LESS THAN 5 INCHES, THE SHOULDER SHOULD BE SAWCUT AND REMOVED PRIOR TO WIDENING.
 2. SEE PAVING LAYOUTS ON SHEET 26.
 3. SEE STRIPING LAYOUTS ON SHEET 36.

SHEET NO. :	2-J	DATE :	DEC 2021	JOB NO. :	20-1101-0085
CITY OF ORANGE BEACH ORANGE BEACH, ALABAMA			CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD		
thompson ENGINEERING 4751 MAIN STREET, SUITE F-712 ORANGE BEACH, ALABAMA 36561 (251) 378-6180			TYPICAL SECTIONS		
PREPARED BY :	THOMPSON ENGINEERING	CHECKED BY :	DATE :	APPROVED BY :	REVISION NO. :
SCALE :		DRAWN BY :			

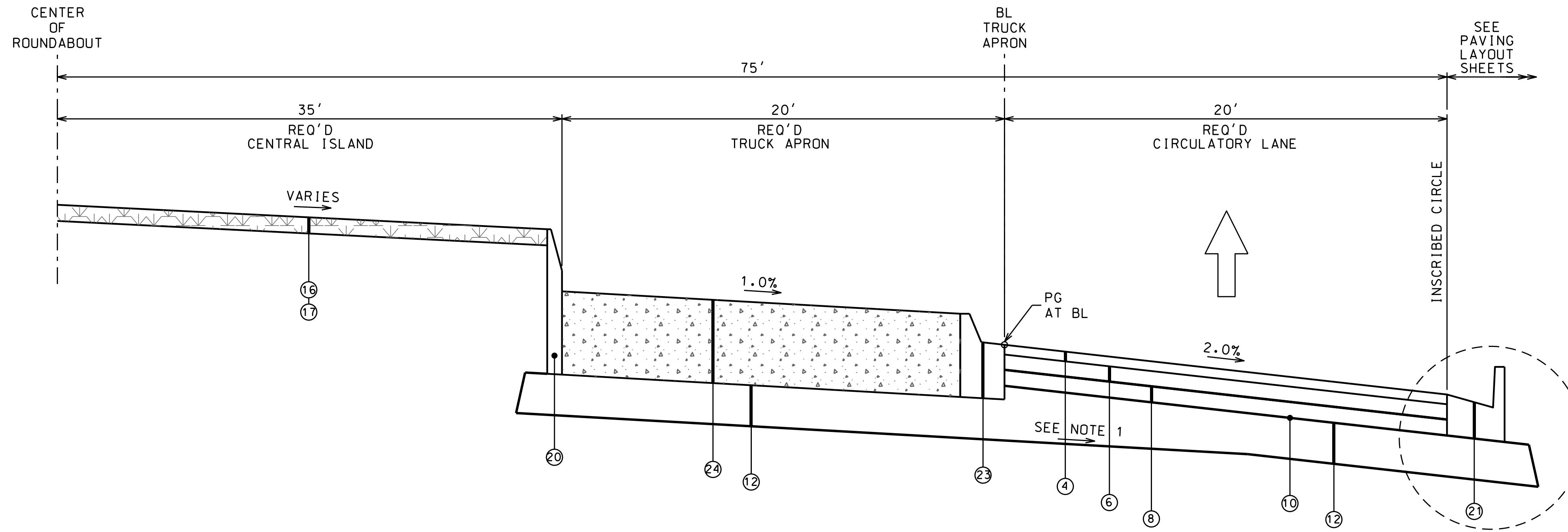


REVISION NO.	DESCRIPTION	DATE	BY:
2	ISSUE FOR BID, REVISION 2	5/4/22	CDW
1	ISSUE FOR BID, REVISION 1	4/27/22	CDW

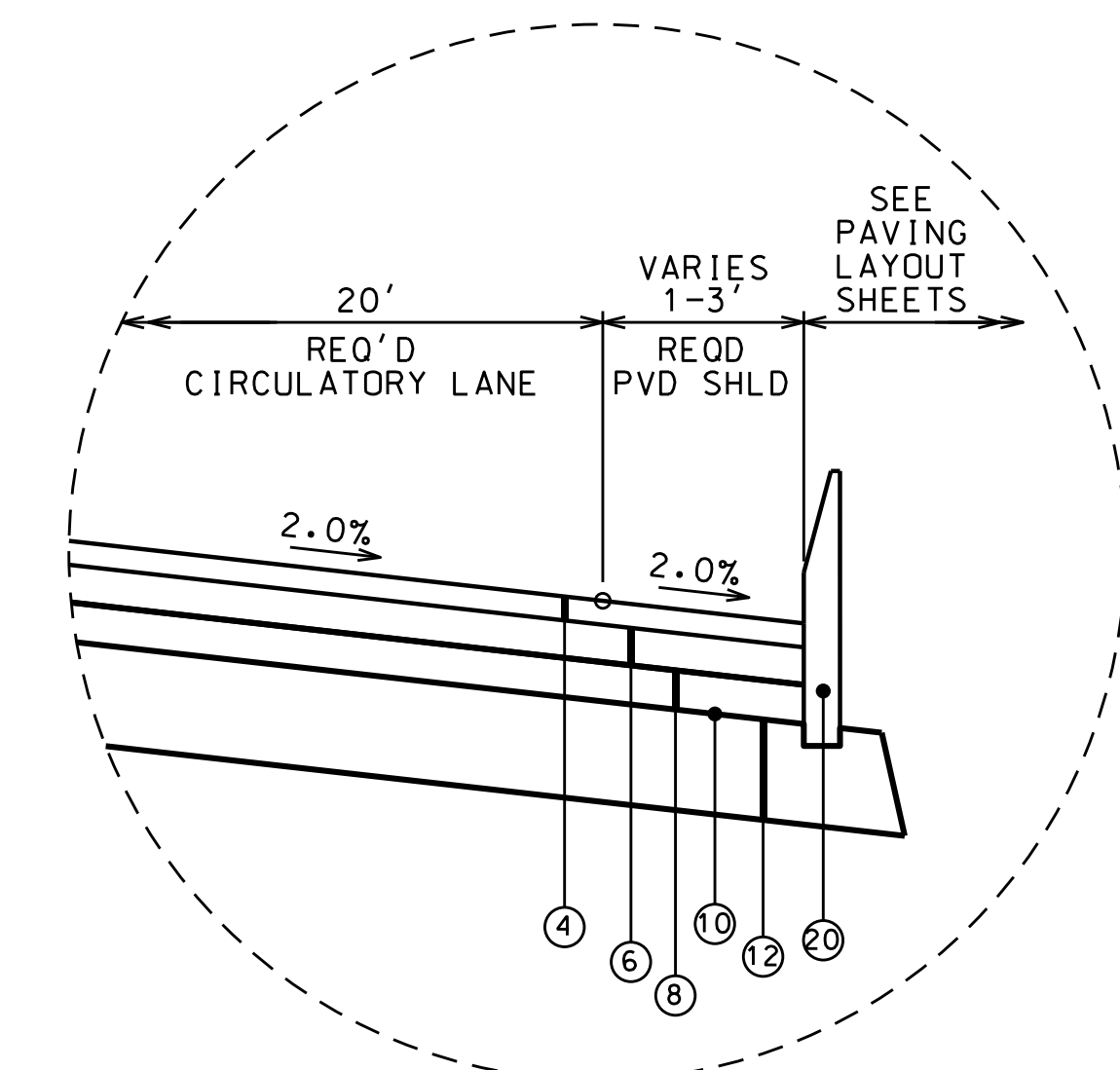
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RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00

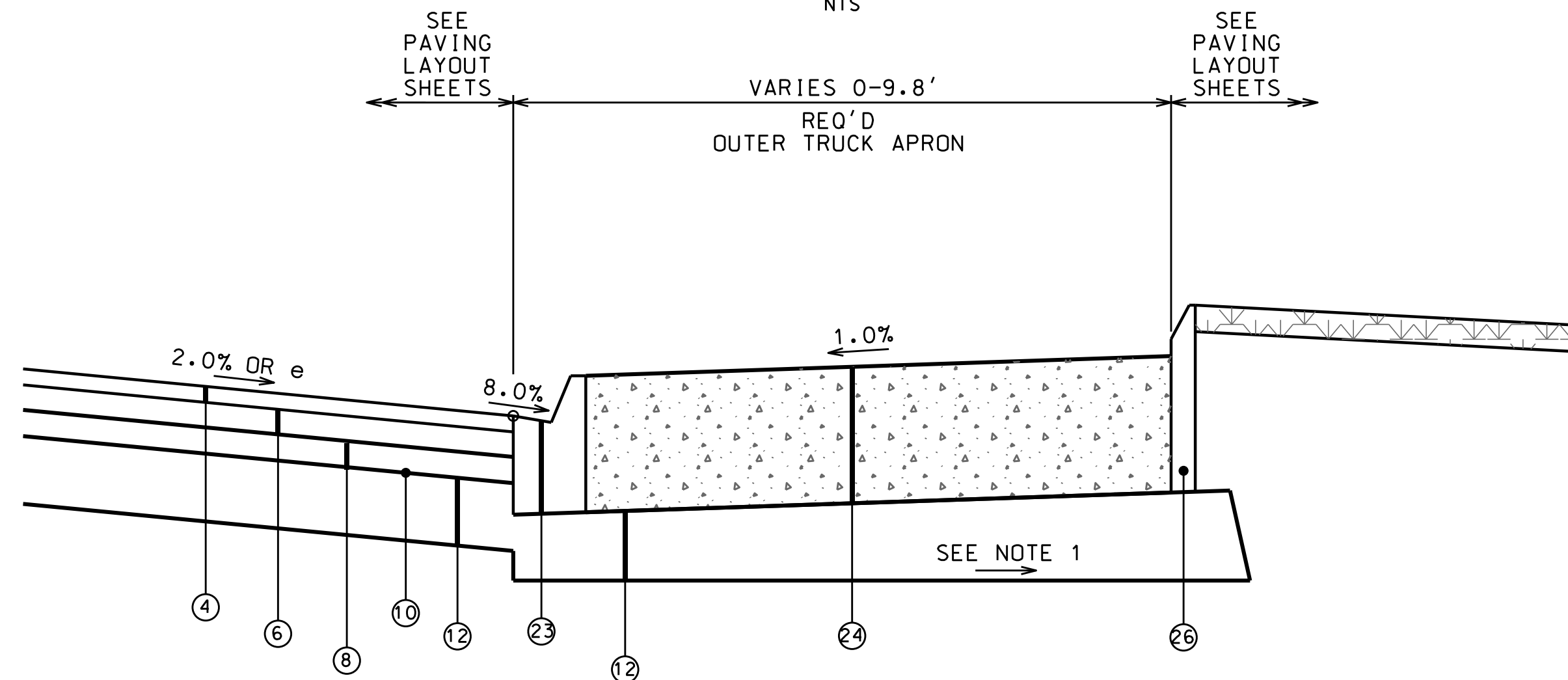
SHEET NO. : 2-K



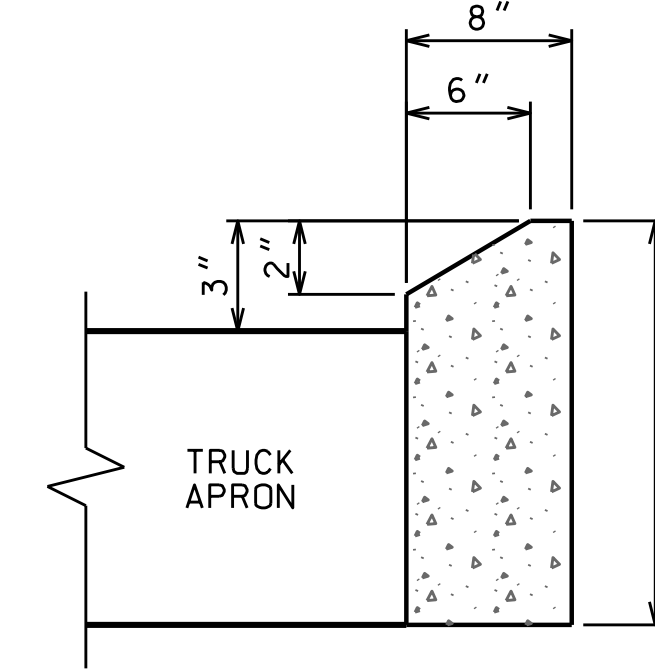
TYPICAL SECTION ROUNDABOUT
NTS



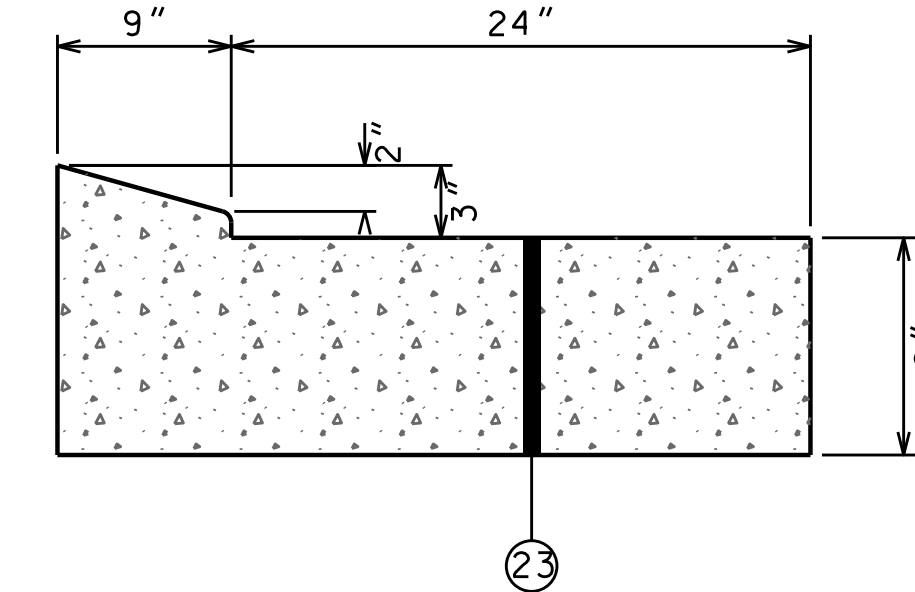
DETAIL AT SPLITTER ISLANDS
NTS



TYPICAL SECTION OUTER TRUCK APRON
NTS



CONCRETE CURB, TYPE N (MODIFIED)
NTS



CONCRETE CURB AND GUTTER, TYPE TRUCK APRON DETAIL
NTS

REQUIRED MATERIALS LEGEND	
(4)	REQ'D: (424A-360) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (165 LBS/SY)
(6)	REQ'D: (424B-651) SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
(8)	REQ'D: (424B-681) SUPERPAVE BITUMINOUS CONCRETE LOWER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
(10)	REQ'D: (401A-000) BITUMINOUS TREATMENT A
(12)	REQ'D: (301A-012) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
(16)	REQ'D: (650A-000) TOPSOIL
(17)	REQ'D: (654A-001) SOLID SODDING (BERMUDA)
(20)	REQ'D: (623B-000) CONCRETE CURB, TYPE N
(21)	REQ'D: (623C-000) COMBINATION CURB & GUTTER, TYPE C
(23)	REQ'D: (623B-151) CONCRETE CURB, TYPE TRUCK APRON
(24)	REQ'D: (450A-007) PLAIN CEMENT CONCRETE PAVEMENT, 12 INCHES THICK
(26)	REQ'D: (623B-012) CONCRETE CURB, TYPE N (MODIFIED)

NOTES:

- GRADE THE ROADBED AND PROVIDE ADDITIONAL THICKNESS ON CRUSHED AGGREGATE BASE COURSE LAYER AS NEEDED UNDER TRUCK APRONS IN ORDER TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE ROADBED. PAYMENT FOR ADDITIONAL THICKNESSES SHALL BE A SUBSIDIARY OBLIGATION OF PAY ITEM 301A-012.
- SEE PAVING LAYOUTS ON SHEET 22.
- SEE STRIPING LAYOUTS ON SHEET 32.

CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD

CITY OF ORANGE BEACH, ALABAMA

PREPARED BY :



DATE

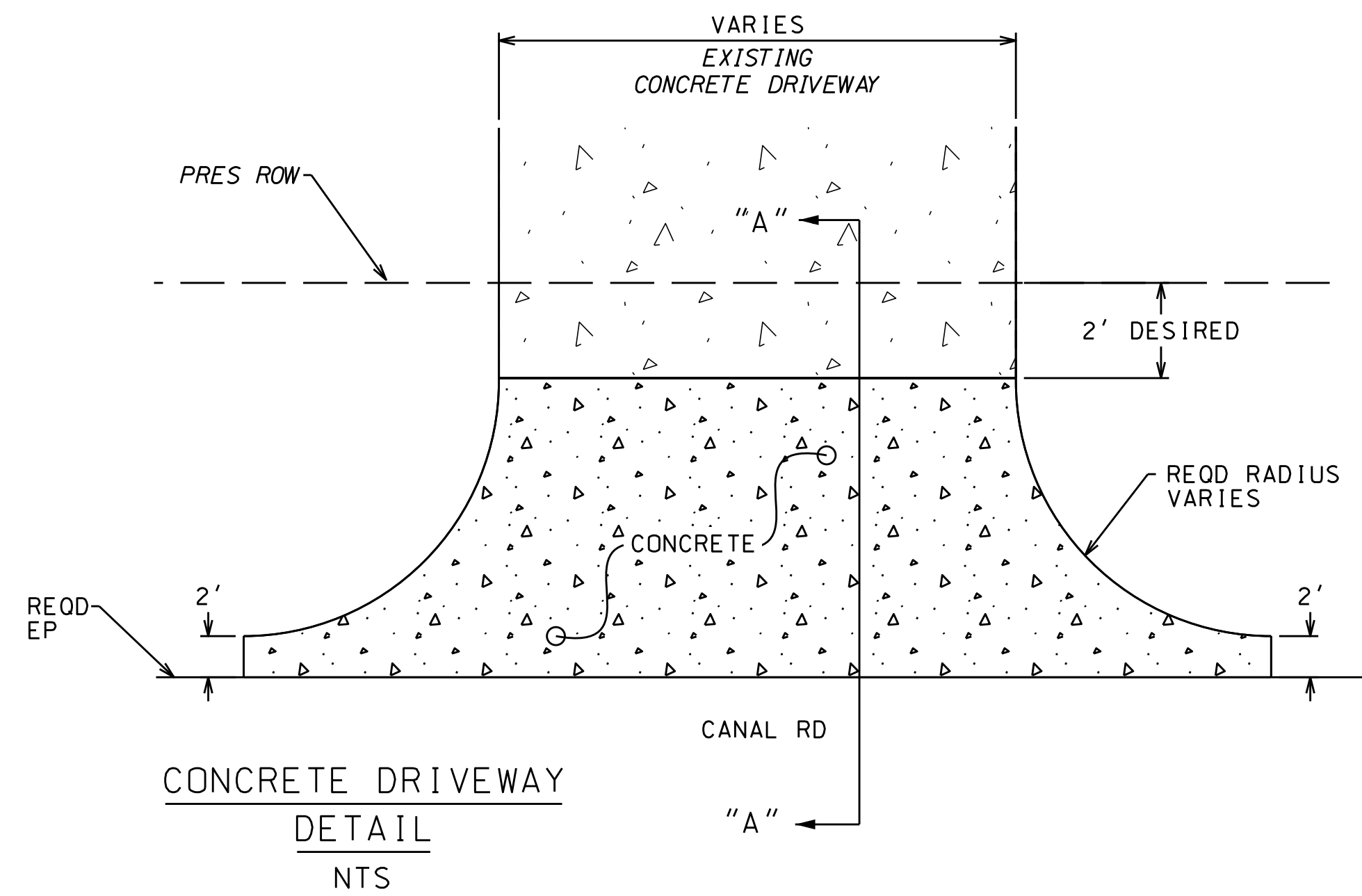
REVISION NO.	DESCRIPTION	DATE	BY:
2	ISSUE FOR BID, REVISION 2	5/4/22	CDW

thompson ENGINEERING
4751 MAIN STREET, SUITE F-212
ORANGE BEACH, ALABAMA 36561
(251) 378-6100

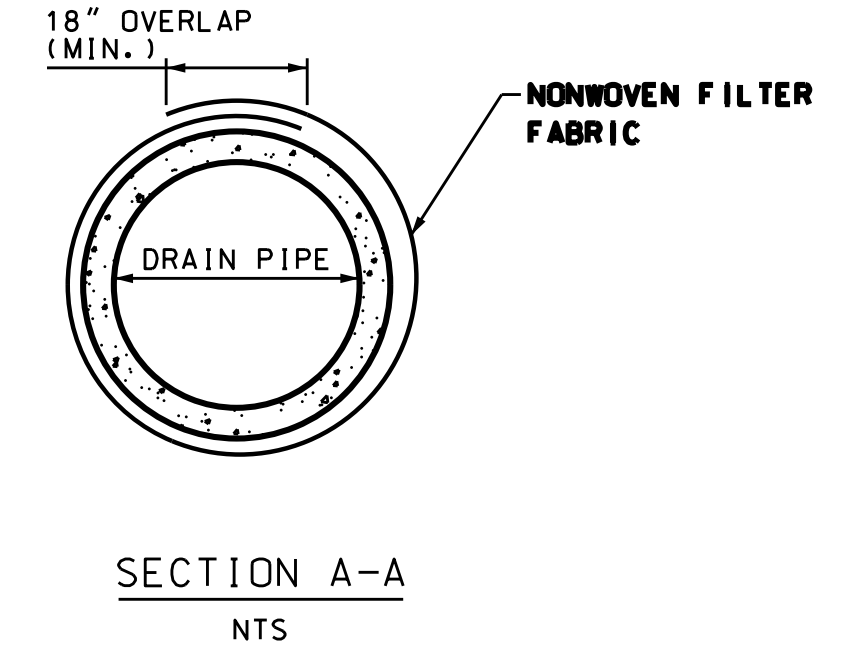
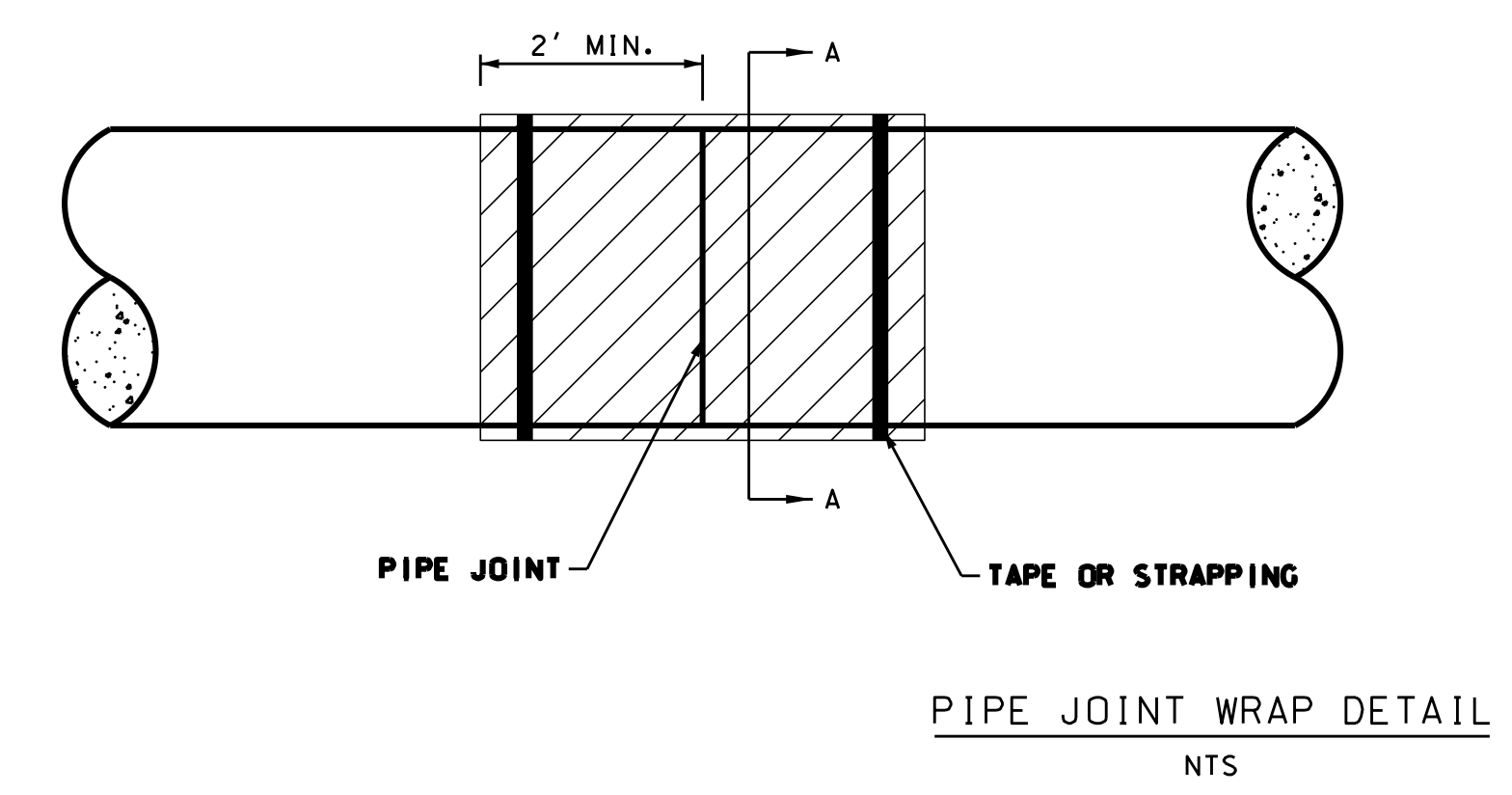
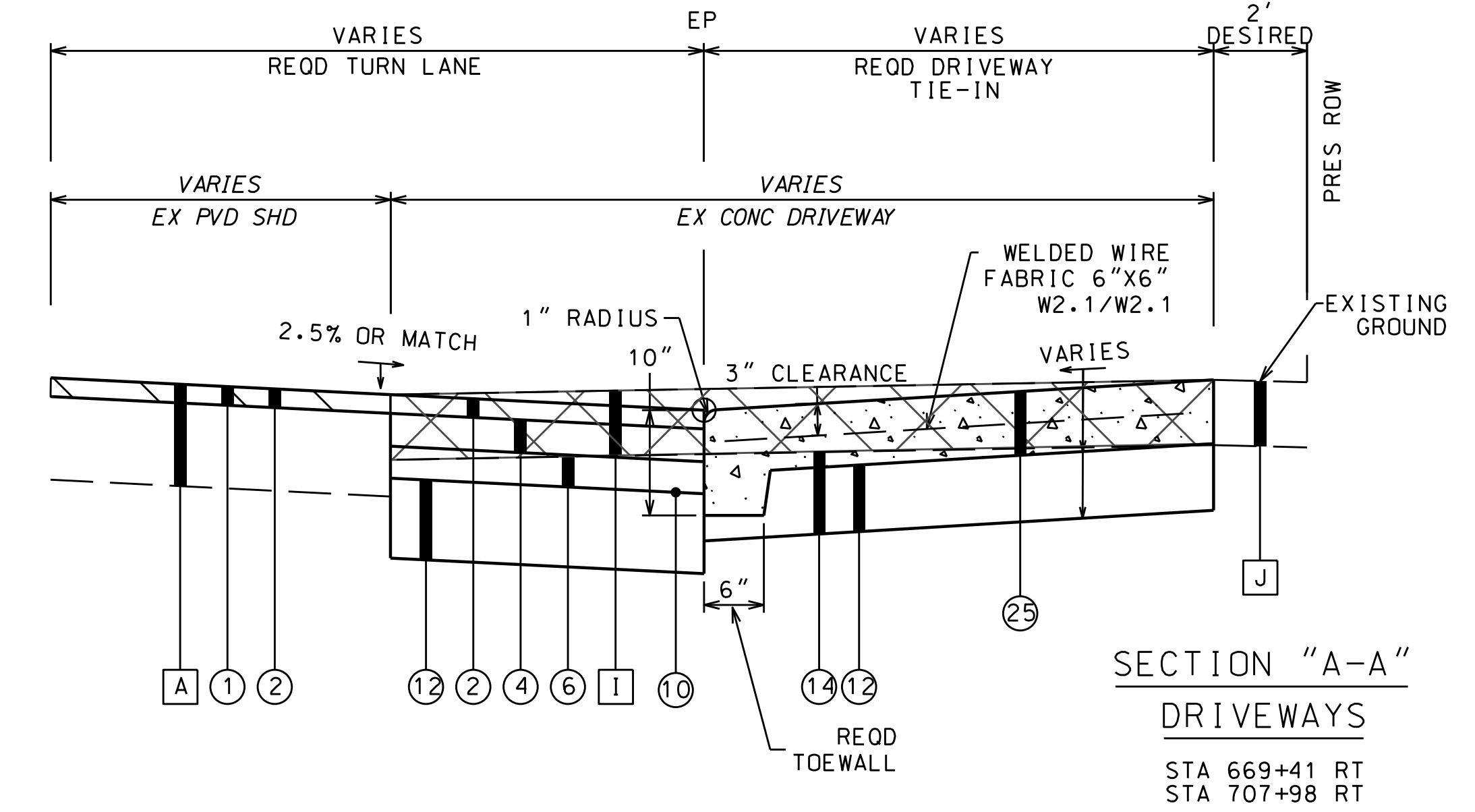
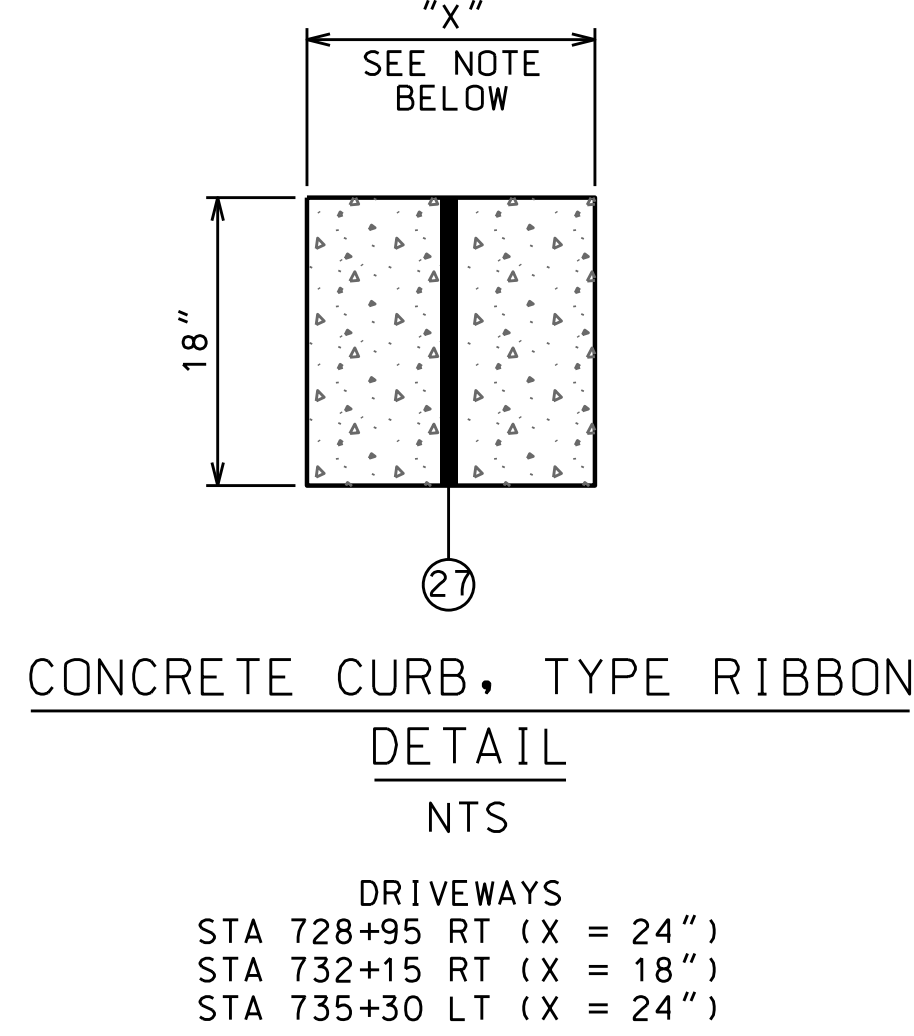
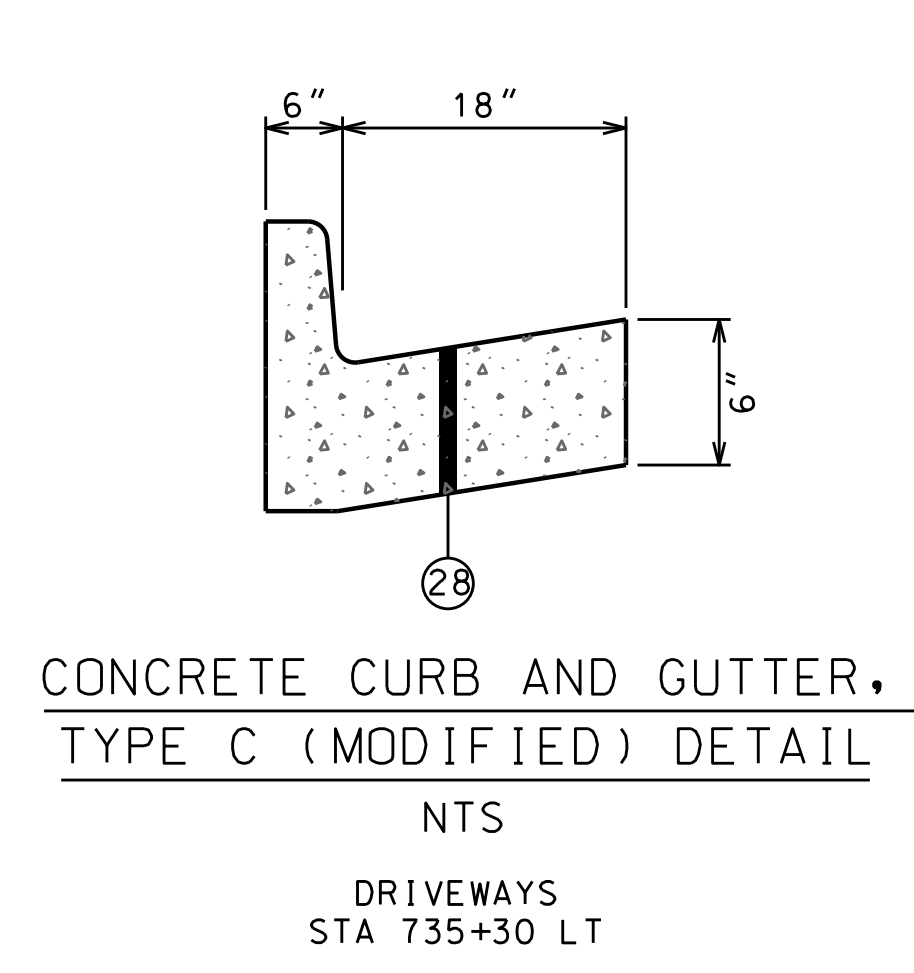
APPROVED BY: DATE: DEC 2021
JOB NO.: 20-1101-0085
REVISION NO.: ..

RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00

NOTE: ALL ITEMS OF WORK PERFORMED ON CITY PROPERTY AND OUTSIDE OF CANAL ROAD RIGHT-OF-WAY SHALL BE MEASURED AND PAID FOR UNDER THE CITY PROJECT PAY ITEMS AND EXCLUDED FROM THE RESTORE GRANT PROJECT PAY ITEMS.



2 DRIVEWAYS (AVG AREA = 117 SQ YD)



EXISTING MATERIALS LEGEND	
A	IN PLACE: BITUMINOUS PAVEMENT (RETAIN, PLANE, LEVEL AND OVERLAY)
I	IN PLACE: CONCRETE DRIVEWAY (SAWCUT AND REMOVE)
J	IN PLACE: CONCRETE DRIVEWAY (RETAIN)
REQUIRED MATERIALS LEGEND	
1	REOD: (408A-052) PLANING EXISTING PAVEMENT (APPROXIMATELY 1.10" THRU 2.0" THICK)
2	REOD: (424A-340) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B (165 LBS/SY)
6	REOD: (424B-651) SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
10	REOD: (401A-000) BITUMINOUS TREATMENT A
12	REOD: (301A-012) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
14	REOD: (210A-000) UNCLASSIFIED EXCAVATION OR (210D-020) BORROW EXCAVATION (A-2 OR BETTER)(LOOSE TRUCKBED MEASUREMENT)
25	REOD: (618B-003) CONCRETE DRIVEWAY, 6" THICK (INCLUDES WIRE MESH)
27	REOD: (623B-150) CONCRETE CURB, TYPE RIBBON
28	REOD: (623C-003) CONCRETE CURB AND GUTTER, TYPE C (MODIFIED)

SHEET NO. : 2-L

CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD

TYPICAL SECTIONS

CITY OF ORANGE BEACH, ALABAMA

thompson ENGINEERING
4751 MAIN STREET, SUITE F-712
ORANGE BEACH, ALABAMA 36561
(251) 378-6180

DATE : DEC 2021 JOB NO. : 20-1101-0085

APPROVED BY: CHECKED BY: DRAWN BY: PREPARED BY:

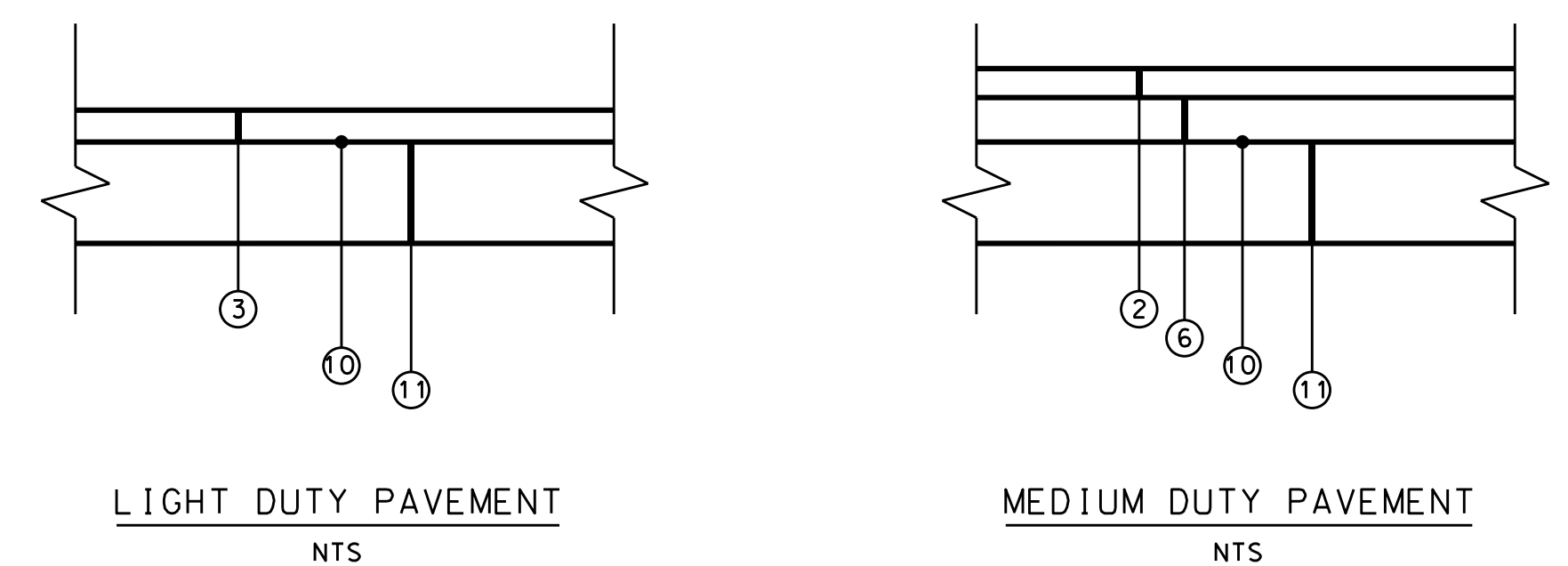
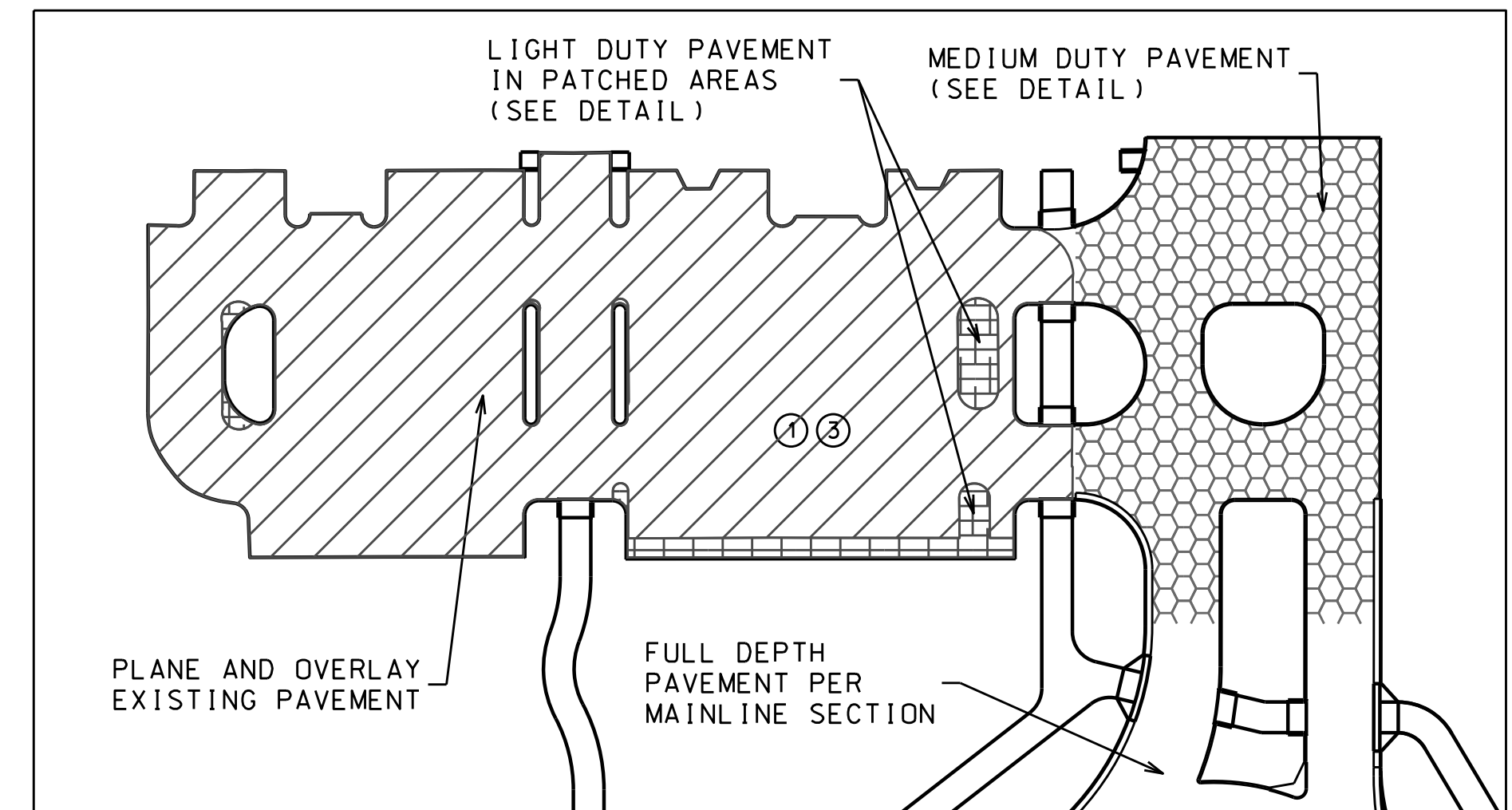
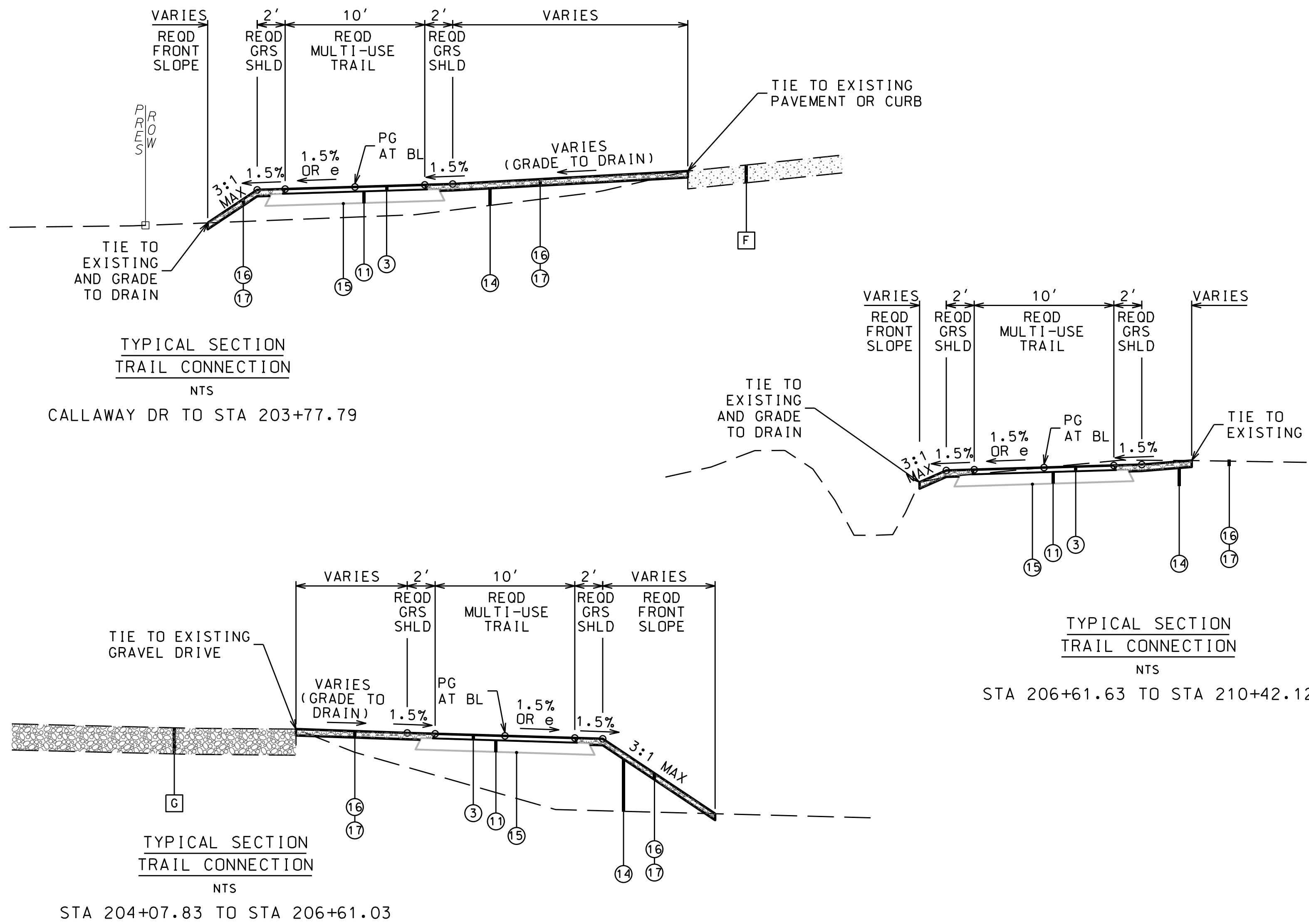
SCALE: ISSUE FOR BID, REVISION 2

DATE: 5/4/22 BY: CDW

THIS DRAWING REPRESENTS A PROFESSIONAL ENGINEERING DESIGN. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED TO THE ENGINEER. THE ENGINEER'S LIABILITY IS LIMITED TO THE PROFESSIONAL ENGINEERING AND SURVEYING ACTS ONLY.

CITY PROJECT

NOTE: ALL ITEMS OF WORK PERFORMED ON CITY PROPERTY AND OUTSIDE OF CANAL ROAD RIGHT-OF-WAY SHALL BE MEASURED AND PAID FOR UNDER THE CITY PROJECT PAY ITEMS AND EXCLUDED FROM THE RESTORE GRANT PROJECT PAY ITEMS.



EXISTING MATERIALS LEGEND	
F	IN PLACE: CONCRETE PAVEMENT (RETAIN)
G	IN PLACE: GRAVEL DRIVEWAY (RETAIN)
H	IN PLACE: BITUMINOUS PAVEMENT (RETAIN, PLANE, AND OVERLAY)
REQUIRED MATERIALS LEGEND	
1	REOD: (408A-052) PLANING EXISTING PAVEMENT (APPROXIMATELY 1.10" THRU 2.0" THICK)
2	REOD: (424A-340) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B (165 LBS/SY)
3	REOD: (424A-340) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B (220 LBS/SY)
6	REOD: (424B-651) SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
10	REOD: (401A-000) BITUMINOUS TREATMENT A
11	REOD: (301A-008) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
14	REOD: (210A-000) UNCLASSIFIED EXCAVATION OR (210D-020) BORROW EXCAVATION (A-2 OR BETTER)(LOOSE TRUCKBED MEASUREMENT)
15	REOD: (608A-000) SEPERATION GEOTEXTILE
16	REOD: (650A-000) TOPSOIL
17	REOD: (654A-001) SOLID SODDING (BERMUDA)

NOTES:
 1. SEE PAVING LAYOUTS ON SHEETS 22 AND 27.
 2. SEE STRIPING LAYOUTS ON SHEETS 32 AND 37.

SHEET NO. :	2-M	DATE :	DEC 2021	JOB NO. :	20-1101-0085
CITY OF ORANGE BEACH, ALABAMA			CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD		
ORANGE BEACH, ALABAMA			TYPICAL SECTIONS		
THOMPSON ENGINEERING, INC. 4751 MAIN STREET, SUITE #712 ORANGE BEACH, ALABAMA 36561 (251) 378-6180			APPROVED BY: _____ CHECKED BY: _____ DRAWN BY: _____		
BEACH ALABAMA CITY OF ORANGE BEACH OFFICIAL SEAL			ISSUE FOR BID, REVISION 2 DATE: 5/4/22 CDW		



ITEM NUMBER	DESCRIPTION	UNIT	RESTORE GRANT QUANTITY	AS-BUILT QUANTITY	CITY PROJECT QUANTITY	AS-BUILT QUANTITY	TOTAL PLAN QUANTITY
201A-002	CLEARING AND GRUBBING (MAXIMUM ALLOWABLE BID \$ 8,000 PER ACRE) (APPROXIMATELY 12.0 ACRES)	LUMP SUM	0.8		0.2		1
206C-000	REMOVING CONCRETE SIDEWALK	SQUARE YARD	2633		1096		3729
206C-010	REMOVING CONCRETE DRIVEWAY	SQUARE YARD	287		17		304
206C-017	REMOVING CONCRETE PAD	SQUARE YARD	0		18		18
206D-000	REMOVING PIPE	LINEAR FOOT	2795		0		2795
206D-002	REMOVING CURB	LINEAR FOOT	189		882		1071
206D-003	REMOVING CURB AND GUTTER	LINEAR FOOT	83		45		128
206D-011	REMOVING FENCE	LINEAR FOOT	0		304		304
206E-000	REMOVING HEADWALLS	EACH	47		0		47
206E-002	REMOVING JUNCTION BOXES	EACH	2		0		2
209A-000	MAILBOX RESET, SINGLE	EACH	16		0		16
209A-002	MAILBOX RESET, MULTIPLE	EACH	2		0		2
210A-000	UNCLASSIFIED EXCAVATION	CUBIC YARD	4556		2421		6977
210D-020	BORROW EXCAVATION (LOOSE TRUCKBED MEASUREMENT)(A2 OR BETTER)	CUBIC YARD	10932		4190		15122
214A-000	STRUCTURE EXCAVATION	CUBIC YARD	1636		664		2300
214B-001	FOUNDATION BACKFILL, COMMERCIAL	CUBIC YARD	677		261		938
230A-000	ROADBED PROCESSING	ROADBED STATION	70		0		70
301A-008	CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS	SQUARE YARD	4800		4565		9365
301A-012	CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS	SQUARE YARD	16307		0		16307
401A-000	BITUMINOUS TREATMENT A	SQUARE YARD	21106		4565		25671
405A-000	TACK COAT	GALLON	6440		758		7198
408A-052	PLANING EXISTING PAVEMENT (APPROXIMATELY 1.10" THRU 2.0" THICK)	SQUARE YARD	8858		3439		12297
410H-000	MATERIAL REMIXING DEVICE	EACH	1		0		1
424A-340	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B	TON	500		306		806
424A-360	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	TON	4657		490		5147
424B-651	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	TON	1852		217		2069
424B-655	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, PATCHING, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	TON	251		12		263
424B-657	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, LEVELING, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	TON	996		0		996
424B-681	SUPERPAVE BITUMINOUS CONCRETE LOWER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	TON	1930		0		1930
430B-040	AGGREGATE SURFACING (CRUSHED AGGREGATE BASE, TYPE B)	TON	1698		500		2198
450A-007	PLAIN CEMENT CONCRETE PAVEMENT,12 INCHES THICK	SQUARE YARD	665		0		665
516D-000	PEDESTRIAN BRIDGE	LUMP SUM	1		0		1
530A-001	18" ROADWAY PIPE (CLASS 3 R.C.)	LINEAR FOOT	218		18		236
530B-014	36" SPAN, 23" RISE ROADWAY PIPE (CLASS 3 R.C.) (EXTENSION)	LINEAR FOOT	0		18		18
532A-030	12" SLOTTED DRAIN PIPE	LINEAR FOOT	0		40		40
532A-032	18" SLOTTED DRAIN PIPE	LINEAR FOOT	100		60		160
533A-855	12" STORM SEWER PIPE	LINEAR FOOT	0		125		125
533A-097	15" STORM SEWER PIPE (CLASS 3 R.C.)	LINEAR FOOT	0		24		24
533A-098	18" STORM SEWER PIPE (CLASS 3 R.C.)	LINEAR FOOT	1546		90		1636
533A-099	24" STORM SEWER PIPE (CLASS 3 R.C.)	LINEAR FOOT	577		864		1441
533A-900	4" STORM SEWER PIPE (PVC)	LINEAR FOOT	22		0		22
533B-099	29" SPAN, 18" RISE STORM SEWER PIPE (CLASS 3 R.C.)	LINEAR FOOT	152		0		152
533B-100	36" SPAN, 23" RISE STORM SEWER PIPE (CLASS 3 R.C.)	LINEAR FOOT	13		0		13
535B-088	22" SPAN, 14" RISE SIDE DRAIN PIPE (CLASS 3 R.C.)	LINEAR FOOT	904		0		904
535B-090	18" SPAN, 11" RISE SIDE DRAIN PIPE (CLASS 3 R.C.)	LINEAR FOOT	56		0		56
535B-091	29" SPAN, 18" RISE SIDE DRAIN PIPE (CLASS 3 R.C.)	LINEAR FOOT	1532		0		1532
600A-000	MOBILIZATION	LUMP SUM	1		0		1
602A-000	RIGHT OF WAY MARKERS	EACH	9		0		9
608A-000	SEPARATION GEOTEXTILE	SQUARE YARD	4800		4565		9365
610A-004	LOOSE RIPRAP, CLASS 2, 24" THICK	SQUARE YARD	0		11		11
610D-003	FILTER BLANKET, GEOTEXTILE	SQUARE YARD	0		16		16
614A-000	SLOPE PAVING	CUBIC YARD	1		0		1
618A-000	CONCRETE SIDEWALK, 4" THICK	SQUARE YARD	568		79		647
618A-001	CONCRETE SIDEWALK, 6" THICK	SQUARE YARD	1113		224		1337
618B-003	CONCRETE DRIVEWAY, 6" THICK (INCLUDES WIRE MESH)	SQUARE YARD	455		0		455
618C-001	DETECTABLE WARNING SURFACE	SQUARE FOOT	372		210		582
618C-002	DIRECTIONAL TACTILE WALKING SURFACE INDICATORS	SQUARE FOOT	400		0		400
618D-000	CURB RAMP	SQUARE YARD	393		110		503
619A-000	12" ROADWAY PIPE END TREATMENT, CLASS 1	EACH	0		1		1
619A-001	15" ROADWAY PIPE END TREATMENT, CLASS 1	EACH	0		1		1
619A-002	18" ROADWAY PIPE END TREATMENT, CLASS 1	EACH	5		0		5
619A-101	18" SIDE DRAIN PIPE END TREATMENT, CLASS 1	EACH	5		1		6
619A-202	24" ROADWAY PIPE END TREATMENT, CLASS 1 (DOUBLE LINE)	EACH	0		1		1
619B-018	36" SPAN, 23" RISE ROADWAY PIPE END TREATMENT, CLASS 1	EACH	0		1		1
619B-115	18" SPAN, 11" RISE SIDE DRAIN PIPE END TREATMENT, CLASS 1	EACH	2		0		2
619B-116	22" SPAN, 14" RISE SIDE DRAIN PIPE END TREATMENT, CLASS 1	EACH	30		0		30
619B-117	29" SPAN, 18" RISE SIDE DRAIN PIPE END TREATMENT, CLASS 1	EACH	38		0		38
619B-267	29" SPAN, 18" RISE ROADWAY PIPE END TREATMENT, CLASS 1 (DOUBLE LINE)	EACH	1		0		1
620A-000	MINOR STRUCTURE CONCRETE	CUBIC YARD	1		1		2
621A-011	JUNCTION BOXES, TYPE 1 OR 1P	EACH	37		0		37
621A-019	JUNCTION BOXES, TYPE 1 OR 2P	EACH	2		0		2
621C-140	INLETS, OPEN THROAT	EACH	4		0		4
621E-004	MANHOLES, TYPE L OR M (STORM)	EACH	3		2		5
621H-001	INLET TOPS, CURB & GUTTER	EACH	24		0		24
621H-002	INLET TOPS, CURB & GUTTER (DOUBLE)	EACH	7		0		7
621H-003	INLET TOPS, GUTTER	EACH	3		0		3



CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD

CITY OF ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING



DATE: DATE: DATE: DATE:

REVISION NO. 2: ISSUE FOR BID, REVISION 2. REVISION NO. 1: ISSUE FOR BID, REVISION 1.

SUMMARY OF QUANTITIES

DATE: DEC 2021

JOB NO.: 20-1101-0085

APPROVED BY:

CHECKED BY:

SCALE:

THOMPSON ENGINEERING INC. 4751 MAIN STREET, SUITE F-712 ORANGE BEACH, ALABAMA 36561 (251) 378-6180

THOMPSON ENGINEERING

THOMPSON ENGINEERING INC. 4751 MAIN STREET, SUITE F-712 ORANGE BEACH, ALABAMA 36561 (251) 378-6180

DATE: DATE: DATE: DATE:

REVISION NO. 2: ISSUE FOR BID, REVISION 2. REVISION NO. 1: ISSUE FOR BID, REVISION 1.

DATE: DATE: DATE: DATE:

REVISION NO. 2: ISSUE FOR BID, REVISION 2. REVISION NO. 1: ISSUE FOR BID, REVISION 1.

DATE: DATE: DATE: DATE:

ITEM NUMBER	DESCRIPTION	UNIT	RESTORE GRANT QUANTITY	CITY PROJECT QUANTITY	TOTAL PLAN QUANTITY
623A-000	CONCRETE GUTTER	LINEAR FOOT	369	0	369
623B-000	CONCRETE CURB, TYPE N	LINEAR FOOT	1937	898	2835
623B-001	CONCRETE CURB, TYPE N SPECIAL	LINEAR FOOT	209	0	209
623B-012	CONCRETE CURB, TYPE N (MODIFIED)	LINEAR FOOT	273		273
623B-150	CONCRETE CURB, TYPE RIBBON	LINEAR FOOT	244	0	244
623B-151	CONCRETE CURB, TYPE TRUCK APRON	LINEAR FOOT	633	0	633
623C-000	COMBINATION CURB & GUTTER, TYPE C	LINEAR FOOT	1606	95	1701
623C-003	COMBINATION CURB & GUTTER, TYPE C (MODIFIED)	LINEAR FOOT	22	8	30
645J-500	MANHOLE CONE RESET	EACH	4	0	4
645K-500	MANHOLE FRAME AND COVER RESET	EACH	4	0	4
650A-000	TOPSOIL	CUBIC YARD	1890	2100	3990
654A-001	SOLID SODDING (BERMUDA)	SQUARE YARD	31200	4700	35900
665A-000	TEMPORARY SEEDING	ACRE	7	1	8
665B-001	TEMPORARY MULCHING	TON	21	3	24
665E-000	POLYETHYLENE	SQUARE YARD	1000	500	1500
665G-000	SAND BAGS	EACH	500	250	750
665I-000	TEMPORARY RIPRAP, CLASS 2	TON	500	250	750
665J-002	SILT FENCE	LINEAR FOOT	13728	1000	14728
665N-001	TEMPORARY COARSE AGGREGATE,ALDOT NUMBER 4	TON	600	300	900
665O-001	SILT FENCE REMOVAL	LINEAR FOOT	13728	1000	14728
665P-005	INLET PROTECTION, STAGE 3 OR 4	EACH	80	0	80
665Q-002	WATTLE	LINEAR FOOT	3000	140	3140
666A-001	PEST CONTROL TREATMENT	ACRE	7	1	8
674A-000	CONSTRUCTION SAFETY FENCE	LINEAR FOOT	1000	500	1500
680A-001	GEOMETRIC CONTROLS	LUMP SUM	1	0	1
701A-227	SOLID WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	MILE	3	1	4
701A-230	SOLID YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	MILE	4	1	5
701A-244	BROKEN YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	MILE	2	0	2
701B-207	DOTTED, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	LINEAR FOOT	3356	0	3356
701C-003	SOLID TEMPORARY TRAFFIC STRIPE (PAINT)	MILE	13	0	13
701D-005	SOLID TRAFFIC STRIPE REMOVED	MILE	7	0	7
703A-002	TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A	SQUARE FOOT	8911	1391	10302
703B-002	TRAFFIC CONTROL LEGENDS, CLASS 2, TYPE A	SQUARE FOOT	292	45	337
703D-002	TEMPORARY TRAFFIC CONTROL MARKINGS (PAINT)	SQUARE FOOT	4456	696	5152
705A-030	PAVEMENT MARKERS, CLASS A-H, TYPE 2-C	EACH	214	0	214
705A-031	PAVEMENT MARKERS, CLASS A-H, TYPE 1-A	EACH	40	0	40
705A-032	PAVEMENT MARKERS, CLASS A-H, TYPE 1-B	EACH	70	0	70
705A-037	PAVEMENT MARKERS, CLASS A-H, TYPE 2-D	EACH	188	7	195
705A-038	PAVEMENT MARKERS, CLASS A-H, TYPE 2-E	EACH	11	0	11
707F-001	FLEXIBLE DELINEATOR POST WITH BASE, YELLOW	EACH	21	3	24
707H-000	RAISED CURB CHANNELIZER, YELLOW	LINEAR FOOT	462	0	462
710A-160	CLASS 10 ALUMINUM FLAT SIGN PANELS 0.08" THICK (TYPE XI BACKGROUND)	SQUARE FOOT	183	0	183
710A-165	CLASS 10 ALUMINUM FLAT SIGN PANELS 0.08" THICK (TYPE XI BACKGROUND, FLUORESCENT)	SQUARE FOOT	183	22	205
710A-170	CLASS 4, ALUMINUM FLAT SIGN PANELS 0.08" THICK (TYPE IV BACKGROUND)	SQUARE FOOT	206	0	206
710B-021	ROADWAY SIGN POST (#3 U CHANNEL, GALVANIZED STEEL OR 2", 14 GA SQUARE TUBULAR STEEL)	LINEAR FOOT	966	28	994
710C-000	REMOVAL OF EXISTING ROADWAY SIGNS	LUMP SUM	1	0	1
711A-000	ROADWAY SIGN RELOCATION	LUMP SUM	1	0	1
740B-000	CONSTRUCTION SIGNS	SQUARE FOOT	750	500	1250
740D-000	CHANNELIZING DRUMS	EACH	500	250	750
740E-000	CONES (36 INCHES HIGH)	EACH	250	125	375
740F-001	BARRICADES, TYPE II	EACH	10	50	60
740F-002	BARRICADES, TYPE III	EACH	10	0	10
740I-002	WARNING LIGHTS, TYPE B	EACH	20	50	70
740M-001	BALLAST FOR CONE	EACH	250	125	375
741C-010	PORTABLE SEQUENTIAL ARROW AND CHEVRON SIGN UNIT	EACH	2	0	2
742A-001	PORTABLE CHANGEABLE MESSAGE SIGN, TYPE 2	EACH	2	0	2



DATE	BY:	DATE	BY:	DATE	BY:	DATE	BY:
				5/3/22	CDW		
ISSUE FOR BID, REVISION 2							
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THOMPSON ENGINEERING, INC.
 4751 MAIN STREET, SUITE F-112
 ORANGE BEACH, ALABAMA 36561
 PHONE: (251) 378-6190
 FAX: (251) 378-6190

PREPARED BY: ..
 CHECKED BY: ..
 APPROVED BY: ..
 DATE: DEC 2021
 JOB NO.: 20-1101-0085
 REVISION NO.: ..

RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00

SHEET NO. : 3-C

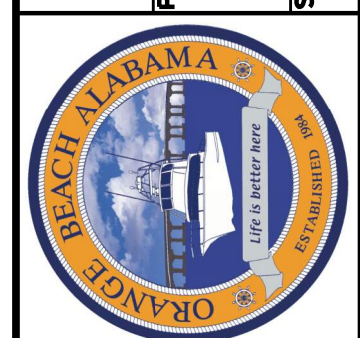
LINE NO.	LOCATION				SIDE DRAIN PIPE CLASS 3 RC			SIDE DRAIN PIPE END TREATMENT CLASS 1			STANDARD OR SPECIAL DRAWING	LINE NO.	
	ROADWAY	STATION	SIDE	INDEX NO	22"x14"	18"x11"	29"x18"	18"x11"	22"x14"	29"x18"			SLOPE
					535B-088	535B-090	535B-091	619B-115	619B-116	619B-117			
					LIN FT	LIN FT	LIN FT	EA	EA	EA			
1	CANAL RD	687+19.80	LT	1			76.0		2	6:1	1		
2	CANAL RD	669+41.37	RT	2			104.0		2	6:1	2		
3	CANAL RD	690+64.81	LT	3	128.0				2	6:1	3		
4	CANAL RD	688+94.53	RT	4	40.0				2	6:1	4		
5	CANAL RD	699+20.81	LT	5	48.0				2	6:1	5		
6	CANAL RD	691+53.24	RT	6	44.0				2	6:1	6		
7	CANAL RD	700+32.09	LT	7	48.0				2	6:1	7		
8	CANAL RD	692+45.39	RT	8	44.0				2	6:1	8		
9	CANAL RD	706+64.77	LT	9	48.0				2	6:1	9		
10	CANAL RD	693+38.42	RT	10	44.0				2	6:1	10		
11	CANAL RD	707+51.10	LT	11	44.0				2	6:1	11		
12	CANAL RD	697+47.52	RT	12			112.0		2	6:1	12		
13	CANAL RD	710+48.80	LT	13	40.0				2	6:1	13		
14	CANAL RD	702+58.23	RT	14	56.0				2	6:1	14		
15	CANAL RD	711+64.54	LT	15		56.0		2		6:1	15		
16	CANAL RD	704+87.01	RT	16			64.0		2	6:1	16		
17	CANAL RD	718+21.26	LT	17			56.0		2	6:1	17		
18	CANAL RD	707+86.62	RT	18			108.0		2	6:1	18		
19	CANAL RD	719+28.39	LT	19			60.0		2	6:1	19		
20	CANAL RD	710+12.92	RT	20			132.0		2	6:1	20		
21	CANAL RD	723+14.50	LT	21			64.0		2	6:1	21		
22	CANAL RD	712+46.95	RT	22			72.0		2	6:1	22		
23	CANAL RD	724+58.09	LT	23	60.0				2	6:1	23		
24	CANAL RD	721+01.93	RT	24	108.0				2	6:1	24		
25	CANAL RD	730+89.55	LT	25			48.0		2	6:1	25		
26	CANAL RD	727+13.30	RT	26	52.0				2	6:1	26		
27	CANAL RD	735+30.08	LT	27			160.0		2	6:1	27		
28	CANAL RD	729+07.00	RT	28	100				2	6:1	28		
29	CANAL RD	732+05.36	RT	30			64.0		2	6:1	29		
30	CANAL RD	732+70.37	RT	32			60.0		2	6:1	30		
31	CANAL RD	734+80.64	RT	34			60.0		2	6:1	31		
32	CANAL RD	735+51.59	RT	36			64.0		2	6:1	32		
33	CANAL RD	736+71.44	RT	38			100.0		2	6:1	33		
34	CANAL RD	737+63.76	RT	40			68.0		2	6:1	34		
35	CANAL RD	738+79.15	RT	42			60.0		2	6:1	35		
36											36		
TOTAL					904	56	1532	2	30	38			

61901
61913
61916

ROADWAY	FROM STA	TO STA	SIDE	REMOVING PIPE			REMOVING JUNCTION BOXES	REMARKS
				206D-000	206E-000	206E-002		
				LIN FT	EACH	EACH		
CANAL RD	668+93	669+89	RT	96	2			
CANAL RD	670+89	671+22	RT	33				
CANAL RD	671+38	671+58	LT	20				
CANAL RD	671+72	-	RT/LT	130			DOUBLE LINE	
CANAL RD	672+16	672+47	LT	32				
CANAL RD	672+96	673+15	LT	19				
CANAL RD	676+18	676+80	LT	62	2			
CANAL RD	677+05	677+21	RT	17				
CANAL RD	677+15	677+45	LT	30				
CANAL RD	678+52	678+68	RT	16				
CANAL RD	679+53	680+08	LT	56	2			
CANAL RD	681+93	682+14	RT	21				
CANAL RD	683+01	683+22	LT	21	1			
CANAL RD	683+06	-	RT/LT	125			DOUBLE LINE	
CANAL RD	683+30	684+11	LT	162		2	DOUBLE LINE	
CANAL RD	687+00	687+40	LT	40	2			
CANAL RD	688+83	689+01	RT	18				
CANAL RD	690+78	691+18	LT	40				
CANAL RD	691+43	691+64	RT	21				
CANAL RD	692+34	692+50	RT	17				
CANAL RD	693+89	-	RT/LT	58	1			
CANAL RD	696+98	698+01	RT	104	2			
CANAL RD	699+07	699+41	LT	34				
CANAL RD	700+16	700+50	LT	34				
CANAL RD	702+35	702+82	RT	47	2			
CANAL RD	704+10	704+33	LT	23				
CANAL RD	704+59	705+14	RT	55	2			
CANAL RD	705+63	-	RT/LT	58				
CANAL RD	706+46	706+76	LT	30				
CANAL RD	707+26	708+36	RT	111	2			
CANAL RD	707+33	707+63	LT	30				
CANAL RD	711+41	711+87	LT	46	2			
CANAL RD	712+17	712+80	RT	64	2			
CANAL RD	717+95	-	LT	11			UNDER SIDEWALK	
CANAL RD	718+06	718+36	LT	30				
CANAL RD	719+06	719+50	LT	44				
CANAL RD	719+58	-	LT	12			UNDER SIDEWALK	
CANAL RD	720+42	721+56	RT	113	2			
CANAL RD	720+88	721+24	LT	36				
CANAL RD	722+94	723+33	LT	39	2			
CANAL RD	724+24	724+92	LT	68	2			
CANAL RD	727+00	727+23	RT	23				
CANAL RD	728+65	729+30	RT	65				
CANAL RD	730+78	731+03	LT	26				
CANAL RD	731+29	-	LT	28	2		DOUBLE LINE UNDER SIDEWALK	
CANAL RD	731+64	731+93	LT	29				
CANAL RD	731+85	732+30	RT	46	2			
CANAL RD	732+34	732+96	LT	62	1			
CANAL RD	732+35	-	LT	15	2		UNDER SIDEWALK	
CANAL RD	732+36	732+86	RT	50	1			
CANAL RD	734+51	735+10	RT	59	1			
CANAL RD	734+76	735+72	LT	96	2			
CANAL RD	735+20	735+80	RT	60	2			
CANAL RD	736+20	-	LT	6			PARTIALLY REMOVE	
CANAL RD	736+28	737+21	RT	93	2			
CANAL RD	737+30	737+95	RT	66	2			
CANAL RD	738+54	739+02	RT	48	2			
TOTAL				2795	47	2		

CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD

CITY OF ORANGE BEACH, ALABAMA



REVISION NO.	DESCRIPTION	DATE	BY:
2	ISSUE FOR BID, REVISION 2	5/3/22	CDW
1	ISSUE FOR BID, REVISION 1	4/27/22	CDW

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thompson ENGINEERING
4751 MAIN STREET, SUITE F-712
ORANGE BEACH, ALABAMA 36561
PREPARED BY: THOMPSON ENGINEERING, INC.
CHECKED BY: THOMPSON ENGINEERING, INC.
APPROVED BY: THOMPSON ENGINEERING, INC.
DATE: DEC 2021
JOB NO.: 20-1101-0085
REVISION NO.: --

RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00

SHEET NO. : 3-D

REQUIRED REMOVING CONCRETE SIDEWALK, DRIVEWAY, CURB AND GUTTER								
ROADWAY	FROM STA	TO STA	SIDE	REMOVING CONCRETE SIDEWALK	REMOVING CONCRETE DRIVEWAY	REMOVING CURB	REMOVING CURB AND GUTTER	REMARKS
				206C-000	206C-010	206D-002	206D-003	
				SQYD	SQYD	LF	LF	
CALLAWAY DR	9+95	10+28	LT	26				
CALLAWAY DR	11+12	11+20	LT	9				
CALLAWAY DR	11+29	11+45	LT	9				
CANAL RD	669+24	669+58	RT		49			
CANAL RD	674+04	678+43	LT	249				
CANAL RD	676+21	676+39	RT		31			
CANAL RD	677+05	677+20	RT		12			
CANAL RD	689+12	693+53	LT	238				
CANAL RD	693+76	702+85	LT	491				
CANAL RD	703+03	714+43	LT	618				
CANAL RD	707+31	708+38	RT		195			
CANAL RD	714+65	732+47	LT	993				
CANAL RD	728+64	728+84	RT			53		
CANAL RD	729+07	729+39	RT			57		
CANAL RD	731+87	731+95	RT			41		
CANAL RD	732+19	732+25	RT			38		
CANAL RD	734+94	735+06	LT				39	
CANAL RD	735+52	735+66	LT				44	
TOTALS				2633	287	189	83	

REQUIRED MAILBOX RESET						
ROADWAY	STA	SIDE	MAILBOX RESET, SINGLE	MAILBOX RESET, MULTIPLE	STANDARD OR SPECIAL DRAWING	REMARKS
			209A-000	209A-002		
			EACH	EACH		
CANAL RD	671+34	LT	1		20901 20902 20903	
CANAL RD	672+19	LT	1			
CANAL RD	673+61	LT	1			
CANAL RD	673+62	LT	1			
CANAL RD	676+50	RT	1			
CANAL RD	677+75	LT	1			
CANAL RD	679+49	LT	1			
CANAL RD	689+17	RT	1			
CANAL RD	691+63	RT	1			
CANAL RD	700+15	RT	1			
CANAL RD	707+20	LT	1			
CANAL RD	711+26	LT		1		
CANAL RD	712+29	RT	1			8 TOTAL
CANAL RD	718+21	RT	1			
CANAL RD	727+87	LT	1			
CANAL RD	730+65	LT	1			
CANAL RD	733+08	RT		1	5 TOTAL	
CANAL RD	735+76	RT	1			
TOTAL			16	2		

REQUIRED DELINEATOR AND CHANNELIZER SUMMARY							
ROADWAY	FROM STA	TO STA	SIDE	FLEXIBLE DELINEATOR POST WITH BASE, YELLOW	RAISED CURB CHANNELIZER, YELLOW	SPECIAL OR STANDARD DRAWING	REMARKS
				707F-001	707H-000		
				EA	LIN FT		
CANAL RD	667+97	672+60	RT		462		
CANAL RD	684+73	-	LT	1			
CANAL RD	685+18	-	LT	1			
CANAL RD	686+92	-	LT	1			
CANAL RD	687+42	-	LT	1			
CANAL RD	693+41	-	LT	1			
CANAL RD	693+84	-	LT	1			
CANAL RD	702+71	-	LT	1			
CANAL RD	703+11	-	LT	1			
CANAL RD	711+37	-	LT	1			
CANAL RD	711+92	-	LT	1			
CANAL RD	714+24	-	LT	1			
CANAL RD	714+78	-	LT	1			
CANAL RD	720+81	-	LT	1			
CANAL RD	721+33	-	LT	1			
CANAL RD	727+23	-	LT	1			
CANAL RD	728+92	-	LT	1			
CANAL RD	732+42	-	LT	1			
CANAL RD	732+69	-	LT	1			
CANAL RD	735+00	-	LT	1			
CANAL RD	735+58	-	LT	1			
CANAL RD	739+27	-	LT	1			
TOTAL				21	462		

CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD

SUMMARY OF QUANTITIES

DATE : DEC 2021 JOB NO. : 20-1101-0085 REVISION NO. : ..

CITY OF ORANGE BEACH, ALABAMA

thompson ENGINEERING

THOMPSON ENGINEERING INC.
4751 MAIN STREET, SUITE F-712
ORANGE BEACH, ALABAMA 36561
(251) 378-6180

PREPARED BY : .. CHECKED BY: .. APPROVED BY: ..
DRAWN BY: ..

SCALE: ..



REVISION NO.	DESCRIPTION	DATE	BY:
2	ISSUE FOR BID, REVISION 2	5/3/22	CDW
1	ISSUE FOR BID, REVISION 1	4/27/22	CDW

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RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00

REQUIRED CONCRETE SIDEWALK, DRIVEWAY, CURB RAMP AND DETECTABLE WARNING SUMMARY																			
LINE NO.	ROADWAY	FROM STA	TO STA	SIDE	CONCRETE SIDEWALK, 4" THICK		CONCRETE SIDEWALK, 6" THICK		CONCRETE DRIVEWAY, 6" THICK (INCLUDES WIRE MESH)	DETECTABLE WARNING SURFACE			DIRECTIONAL TACTILE WALKING SURFACE INDICATORS			CURB RAMP	SPECIAL OR STANDARD DRAWING	REMARKS	LINE NO.
					WIDTH	618A-000 SQ YD	WIDTH	618A-001 SQ YD	618B-003 SQ YD	LENGTH	WIDTH	618C-001 SQ FT	LENGTH	WIDTH	618C-002 SQ FT	618D-000 SQ YD			
1	NORTH ACCESS	27+28	27+50	RT						10	2	20				11	TYPE 1: PERPENDICULAR MIDBLOCK	1	
2	NORTH ACCESS	27+33	27+49	MEDIAN			10	20		10	2	40				14	TYPE 1: MEDIAN CUT-THROUGH OPENING	2	
3	NORTH ACCESS	27+39	27+60	LT						10	2	20				11	TYPE 1: PERPENDICULAR MIDBLOCK	3	
4	CANAL RD	669+01	669+81	RT					98								TIE TO EXISTING	4	
5	CANAL RD	669+04	-	LT						6	2	12					COMMERCIAL DRIVEWAY	5	
6	CANAL RD	669+04	669+90	LT	6	59												6	
7	CANAL RD	669+90	670+36	LT			6	31									DRIVEWAY CROSSING	7	
8	CANAL RD	670+36	671+33	LT	6	67												8	
9	CANAL RD	671+33	671+63	LT					30							10	TYPE 3: DRIVEWAY CROSSING	9	
10	CANAL RD	671+63	672+13	LT	6	33										10		10	
11	CANAL RD	672+13	672+51	LT					45								TYPE 3: DRIVEWAY CROSSING	11	
12	CANAL RD	672+51	673+44	LT	6	64												12	
13	CANAL RD	673+44	673+82	LT						10	2	40				39	TYPE 1A: PARALLEL CORNER	13	
14	CANAL RD	673+50	673+60	MEDIAN						10	2	40				9	TYPE 1: MEDIAN CUT-THROUGH OPENING	14	
15	CANAL RD	673+50	673+80	RT						10	2	20				33	TYPE 1A: PARALLEL CORNER	15	
16	CANAL RD	674+11	674+40	LT						10	2	20				25	TYPE 1A: PARALLEL CORNER	16	
17	CANAL RD	674+40	676+27	LT	6	127												17	
18	CANAL RD	676+19	676+43	RT					22								TIE TO EXISTING	18	
19	CANAL RD	676+27	676+69	LT					59							10	TYPE 3: DRIVEWAY CROSSING	19	
20	CANAL RD	676+69	677+12	LT	6	29												20	
21	CANAL RD	677+00	677+24	RT					20									21	
22	CANAL RD	677+12	677+48	LT					45							10	TYPE 3: DRIVEWAY CROSSING	22	
23	CANAL RD	677+48	678+76	LT	6	86												23	
24	CANAL RD	678+76	681+55	LT			10	371									ROUNDAABOUT	24	
25	CANAL RD	679+56	679+74	RT							10	2	20			7	ANGLED BICYCLE RAMP	25	
26	CANAL RD	679+56	679+74	LT							10	2	20			7	ANGLED BICYCLE RAMP	26	
27	CANAL RD	679+64	683+12	RT			10	446									ROUNDAABOUT	27	
28	CANAL RD	680+64	680+85	LT						10	2	20				11	TYPE 1: PERPENDICULAR MIDBLOCK	28	
29	CANAL RD	680+67	680+83	RT						10	2	20				16	TYPE 1: PERPENDICULAR MIDBLOCK	29	
30	CANAL RD	680+75	680+86	MEDIAN						10	2	40				16	TYPE 1: MEDIAN CUT-THROUGH OPENING	30	
31	CANAL RD	682+49	684+20	LT			10	245									ROUNDAABOUT	31	
32	CANAL RD	682+87	683+03	LT						10	2	20				15	TYPE 1: PERPENDICULAR MIDBLOCK	32	
33	CANAL RD	682+88	682+97	MEDIAN						10	2	40				10	TYPE 1: MEDIAN CUT-THROUGH OPENING	33	
34	CANAL RD	682+89	683+10	RT						10	2	20				11	TYPE 1: PERPENDICULAR MIDBLOCK	34	
35	CANAL RD	683+08	684+27	RT	6	78												35	
36	CANAL RD	683+90	684+11	LT	6	11							10	2	20			36	
37	CANAL RD	684+01	684+20	LT												7	ANGLED BICYCLE RAMP	37	
38	CANAL RD	684+18	684+36	RT							10	2	20			7	ANGLED BICYCLE RAMP	38	
39	CANAL RD	693+43	693+52	LT							10	2	20			7		39	
40	CANAL RD	693+76	693+81	LT							10	2	20			5		40	
41	CANAL RD	702+73	702+82	LT							10	2	20			7		41	
42	CANAL RD	703+03	703+09	LT							10	2	20			5		42	
43	CANAL RD	707+41	708+40	RT					136									43	
44	CANAL RD	710+46	710+51	LT	5	14											CONNECT TO EXISTING SIDEWALK	44	
45	CANAL RD	711+39	711+50	LT							10	2	20			9		45	
46	CANAL RD	711+79	711+90	LT							10	2	20			9		46	
47	CANAL RD	714+25	714+37	LT							10	2	20			9		47	
48	CANAL RD	714+66	714+76	LT							10	2	20			7		48	
49	CANAL RD	720+83	720+94	LT							10	2	20			9		49	
50	CANAL RD	721+19	721+31	LT							10	2	20			9		50	
51	CANAL RD	727+25	727+31	LT							10	2	20			5		51	
52	CANAL RD	728+86	728+90	LT							10	2	20			4		52	
53	CANAL RD	732+44	732+46	LT							10	2	20			3		53	
54	CANAL RD	732+63	732+67	LT							10	2	20			4		54	
55	CANAL RD	735+02	735+08	LT							10	2	20			6		55	
56	CANAL RD	735+50	735+57	LT							10	2	20			6		56	
57																		57	
TOTAL						568		1113		455		372			400		393		

CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD

CITY OF ORANGE BEACH, ALABAMA

thompson ENGINEERING

THOMPSON ENGINEERING INC. 4751 MAIN STREET, SUITE F-712 ORANGE BEACH, ALABAMA 36561

PREPARED BY: ... CHECKED BY: ... APPROVED BY: ...

DATE: ...

ISSUE FOR BID, REVISION 2

DATE: 5/3/22

CDW

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2	ISSUE FOR BID, REVISION 2	5/3/22	CDW

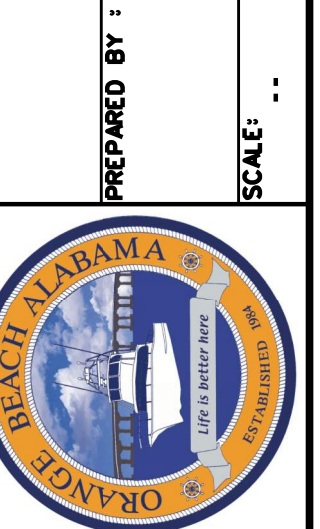
RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00

SHEET NO. : 3-F

LINE NO.	ROADWAY	FROM STA	TO STA	SIDE	REQUIRED CONCRETE PAVEMENT, CURB AND GUTTER SUMMARY										SPECIAL OR STANDARD DRAWING	REMARKS	LINE NO.
					CONCRETE GUTTER	CONCRETE CURB, TYPE N	CONCRETE CURB, TYPE N SPECIAL	CONCRETE CURB, TYPE N (MODIFIED)	CONCRETE CURB, TYPE RIBBON	CONCRETE CURB, TYPE TRUCK APRON	PLAIN CEMENT CONCRETE PAVEMENT, 12 INCHES THICK	COMBINATION CURB AND GUTTER, TYPE C	COMBINATION CURB AND GUTTER, TYPE C (MODIFIED)				
					623A-000 LIN FT	623B-000 LIN FT	623B-001 LIN FT	623B-012 LIN FT	623B-150 LIN FT	623B-151 LIN FT	450A-007 SQ YD	623C-000 LIN FT	623C-003 LIN FT				
1	NORTH ACCESS	27+13	27+70	MEDIAN		98	23										1
2	NORTH ACCESS	27+23	27+28	RT									6				2
3	NORTH ACCESS	27+50	27+70	RT									19				3
4	NORTH ACCESS	27+60	27+71	LT									12				4
5	CANAL RD	669+19	669+81	LT									64				5
6	CANAL RD	669+81	670+43	LT	62											DRIVEWAY	6
7	CANAL RD	670+43	671+33	LT									90				7
8	CANAL RD	671+33	671+63	LT	30											DRIVEWAY	8
9	CANAL RD	671+63	672+13	LT									50				9
10	CANAL RD	672+13	672+51	LT	38											DRIVEWAY	10
11	CANAL RD	672+51	673+44	LT									94				11
12	CANAL RD	672+57	673+92	MEDIAN		187	67										12
13	CANAL RD	674+16	681+09	MEDIAN		1333	59										13
14	CANAL RD	674+40	676+27	LT									188				14
15	CANAL RD	675+50	675+88	RT									38				15
16	CANAL RD	675+88	676+53	RT	66											DRIVEWAY	16
17	CANAL RD	676+27	676+69	LT	42											DRIVEWAY	17
18	CANAL RD	676+53	676+90	RT									37				18
19	CANAL RD	676+69	677+12	LT									44				19
20	CANAL RD	676+90	677+35	RT	45											DRIVEWAY	20
21	CANAL RD	677+12	677+48	LT	36											DRIVEWAY	21
22	CANAL RD	677+35	678+37	RT									102				22
23	CANAL RD	677+48	679+56	LT									208				23
24	CANAL RD	678+37	378+87	RT	50											DRIVEWAY	24
25	CANAL RD	678+87	679+56	RT									69				25
26	CANAL RD	679+68	679+94	RT									27				26
27	CANAL RD	679+68	680+64	LT									96				27
28	CANAL RD	679+94	681+29	RT				132		132	58					TRUCK APRON COLOR SHALL MATCH AMS-STD-595-21105 RED	28
29	CANAL RD	680+85	681+59	LT									103				29
30	CANAL RD	681+29	682+89	RT									176				30
31	CANAL RD	681+30	682+40	CENTRAL ISLAND		220				346	553					TRUCK APRON COLOR SHALL MATCH AMS-STD-595-21105 RED	31
32	CANAL RD	682+44	683+70	LT				141		155	54					TRUCK APRON COLOR SHALL MATCH AMS-STD-595-21105 RED	32
33	CANAL RD	682+61	683+24	MEDIAN		99	60										33
34	CANAL RD	683+10	684+24	RT									115				34
35	CANAL RD	683+70	684+07	LT									38				35
36	CANAL RD	684+20	684+35	LT									15				36
37	CANAL RD	684+36	684+51	RT									15				37
38	CANAL RD	728+60	728+84	RT					46								38
39	CANAL RD	729+07	729+34	RT					46								39
40	CANAL RD	731+69	731+95	RT					46								40
41	CANAL RD	732+19	732+36	RT					38								41
42	CANAL RD	734+83	735+07	LT					34								42
43	CANAL RD	735+51	735+75	LT					34								43
44	CANAL RD	735+07	-	LT									9			TIE TO EXISTING	44
45	CANAL RD	735+52	-	LT									13			TIE TO EXISTING	45
46																	46
TOTAL					369	1937	209	273	244	633	665	1606	22				

CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD

CITY OF ORANGE BEACH, ALABAMA



thompson ENGINEERING
 THOMPSON ENGINEERING, INC.
 4751 MAIN STREET, SUITE F-212
 ORANGE BEACH, ALABAMA 36561
 (251) 378-6100

REVISION NO.	DESCRIPTION	DATE	BY:
2	ISSUE FOR BID, REVISION 2	5/3/22	CDW

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DATE : DEC 2021 JOB NO. : 20-1101-0085 REVISION NO. : ..

RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00

REQUIRED GROUND MOUNTED ROADWAY SIGNS

Main table with columns: LINE NO., SIGN ID, SHEET NUMBER, ROADWAY, STATION, SIDE, ROADWAY SIGN POST (#3 U CHANNEL, GALVANIZED STEEL OR 2", 14 GA SQUARE TUBULAR STEEL), CLASS 10 ALUMINUM FLAT SIGN PANELS 0.08" THICK (TYPE XI BACKGROUND), CLASS 10 ALUMINUM FLAT SIGN PANELS 0.08" THICK (TYPE XI BACKGROUND, FLUORESCENT), SPECIAL OR STANDARD DRAWING, REMARKS, LINE NO.

CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD

SUMMARY OF QUANTITIES

CITY OF ORANGE BEACH, ALABAMA



THOMPSON ENGINEERING, INC. 4751 MAIN STREET, SUITE F-212 ORANGE BEACH, ALABAMA 36561

CITY PROJECT

REQUIRED REMOVING CONCRETE SIDEWALK, DRIVEWAY, PAD, CURB AND GUTTER, AND FENCE											
ROADWAY	FROM STA	TO STA	SIDE	REMOVING CONCRETE SIDEWALK	REMOVING CONCRETE DRIVEWAY	REMOVING CONCRETE PAD	REMOVING CURB	REMOVING CURB AND GUTTER	REMOVING FENCE	REMARKS	
				206C-000	206C-010	206C-017	206D-002	206D-003	206D-011		
				SQYD	SQYD	SQYD	LF	LF	LF		
CALLAWAY DR	4+24	4+46	LT	16							
CALLAWAY DR	4+24	4+46	LT					24			
CALLAWAY DR	4+24	4+47	RT					21			
CALLAWAY DR	9+14	9+95	LT	46							
NORTH ACCESS	27+08	27+97	LT	52							
NORTH ACCESS	27+08	29+18	LT				882				
NORTH ACCESS	28+21	28+34	LT			13			33		
NORTH ACCESS	28+39	28+83	LT		17						
NORTH ACCESS	28+83	28+90	LT			5					
NORTH ACCESS	28+94	29+07	RT						38		
NORTH ACCESS	28+99	29+18	LT	10							
NORTH ACCESS	29+18	29+24	LT	4							
NORTH ACCESS	29+18	29+24	LT	4							
NORTH ACCESS	29+18	29+24	LT	11							
TRAIL CONNECTION	202+49	203+61	LT/RT						233		
CANAL RD	678+43	679+69	LT	66							
CANAL RD	679+92	684+79	LT	274							
CANAL RD	685+11	687+02	LT	120							
CANAL RD	687+37	689+12	LT	115							
CANAL RD	690+12	690+19	LT	24							
CANAL RD	732+63	735+06	LT	141							
CANAL RD	735+53	739+27	LT	213							
TOTALS				1096	17	18	882	45	304		

REQUIRED CONCRETE CURB AND GUTTER SUMMARY										
LINE NO.	ROADWAY	FROM STA	TO STA	SIDE	CONCRETE CURB, TYPE N	COMBINATION CURB AND GUTTER, TYPE C	COMBINATION CURB AND GUTTER, TYPE C (MODIFIED)	SPECIAL OR STANDARD DRAWING	REMARKS	LINE NO.
					623B-000	623C-000	623C-003			
					LIN FT	LIN FT	LIN FT			
1	CALLAWAY DR	4+24	4+25	LT			2	62301 62307 62310		1
2	CALLAWAY DR	4+26	4+32	RT			6			2
3	NORTH ACCESS	27+70	28+11	MEDIAN	106					3
4	NORTH ACCESS	28+35	28+75	MEDIAN	135					4
5	NORTH ACCESS	27+70	28+11	LT		53				5
6	NORTH ACCESS	27+70	28+11	RT		42				6
7	NORTH ACCESS	27+92	29+29	LT	657					7
8	TOTAL				898	95	8			PARKING LOT IMPROVEMENTS

REQUIRED GROUND MOUNTED ROADWAY SIGNS											
SIGN ID	SHEET NUMBER	ROADWAY	STATION	SIDE	ROADWAY SIGN POST (#3 U CHANNEL, GALVANIZED STEEL OR 2", 14 GA SQUARE TUBULAR STEEL)	CLASS 10 ALUMINUM FLAT SIGN PANELS 0.08" THICK (TYPE XI BACKGROUND, FLUORESCENT)				SPECIAL OR STANDARD DRAWING	REMARKS
						710A-165		716-7P			
						NO.	710B-021 LIN FT	NO	SQ FT		
34, 35	47	BL CALLAWAY DR	4+28	RT	1	14	1	9	1	2	71001, 71002, 71017
36, 37	47	BL CALLAWAY DR	4+43	LT	1	14	1	9	1	2	71023, 71032, 71035
TOTALS						2	28		22		71079, 71080

REQUIRED CONCRETE SIDEWALK, CURB RAMP AND DETECTABLE WARNING SUMMARY															
LINE NO.	ROADWAY	FROM STA	TO STA	SIDE	CONCRETE SIDEWALK, 4" THICK		CONCRETE SIDEWALK, 6" THICK		DETECTABLE WARNING SURFACE		CURB RAMP	SPECIAL OR STANDARD DRAWING	REMARKS	LINE NO.	
					WIDTH	618A-000 SQ YD	WIDTH	618A-001 SQ YD	LENGTH	WIDTH	618C-001 SQ FT				618D-000 SQ YD
1	CALLAWAY DR	4+25	4+45	LT					10	2	20	18	61801 61802 61803 61804	1	
2	CALLAWAY DR	9+14	9+85	LT	5	44								2	
3	TRAIL CONNECTION	200+10	200+13	CL					10	2	20	3		3	
4	TRAIL CONNECTION	203+78	203+86	CL					10	2	20	6		4	
5	TRAIL CONNECTION	203+98	204+08	CL					10	2	20	8		5	
6	NORTH ACCESS	26+86	28+04	LT			10	135						6	
7	NORTH ACCESS	27+67	28+05	LT			10	42						7	
8	NORTH ACCESS	28+41	28+69	LT			10	32						8	
9	NORTH ACCESS	29+05	29+18	LT			10	15						9	
10	NORTH ACCESS	28+04	28+10	LT					10	2	20	7		10	
11	NORTH ACCESS	28+05	28+11	LT					10	2	20	7		11	
12	NORTH ACCESS	28+35	28+41	LT					10	2	20	7		12	
13	NORTH ACCESS	28+69	28+75	LT					10	2	20	7		13	
14	NORTH ACCESS	28+99	29+05	LT					10	2	20	7		14	
15	NORTH ACCESS	29+18	29+24	LT					5	2	10	5		15	
16	NORTH ACCESS	29+18	29+24	LT					5	2	10	7		16	
17	NORTH ACCESS	29+18	29+24	LT					5	2	10	7		17	
18	CANAL RD	684+75	684+79	LT								7	18		
19	CANAL RD	685+12	685+16	LT								5	19		
20	CANAL RD	686+38	686+45	LT	5	10							20		
21	CANAL RD	686+94	687+02	LT								6	21		
22	CANAL RD	687+37	687+40	LT								3	22		
23	CANAL RD	687+99	688+10	LT	5	7							23		
24	CANAL RD	690+09	690+22	LT	5	10							24		
25	CANAL RD	735+82	735+88	LT	5	8							25		
26	TOTAL					79	224		210		110			26	

CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD

CITY OF ORANGE BEACH, ALABAMA

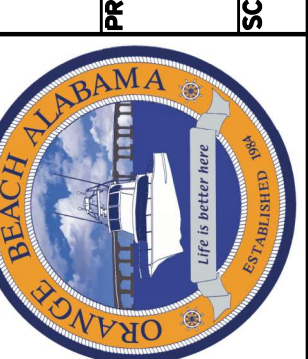


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THOMPSON ENGINEERING, INC.
4751 MAIN STREET, SUITE F-712
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PHONE: (251) 378-6180
FAX: (251) 378-6181
WWW.THEENGINEERS.COM

PREPARED BY : thompson ENGINEERING
DRAWN BY :
CHECKED BY :
APPROVED BY :
SCALE :



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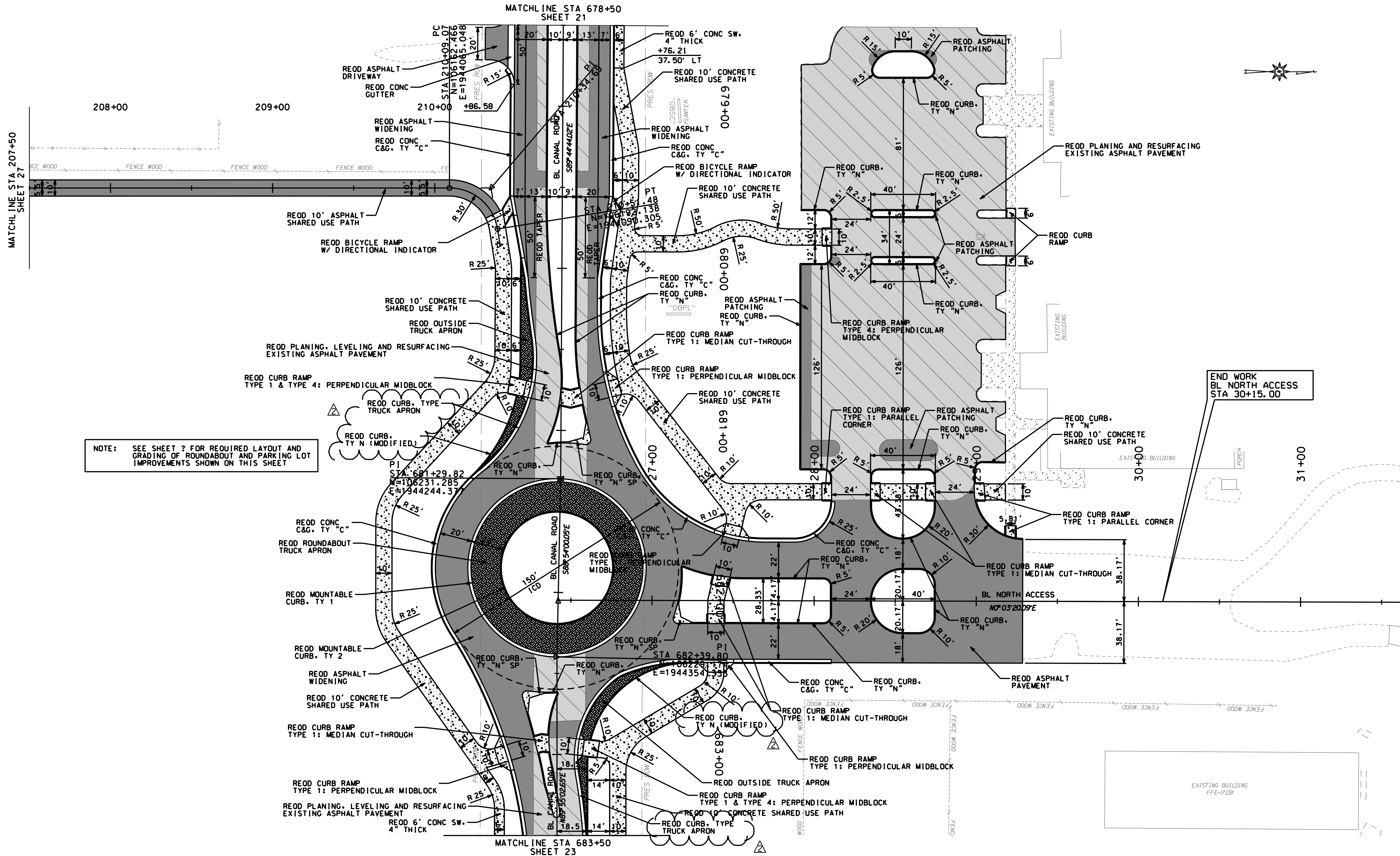
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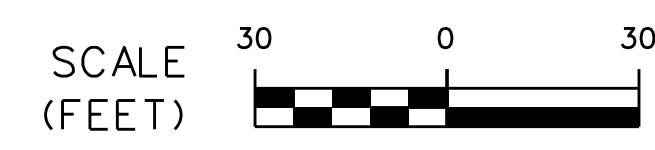


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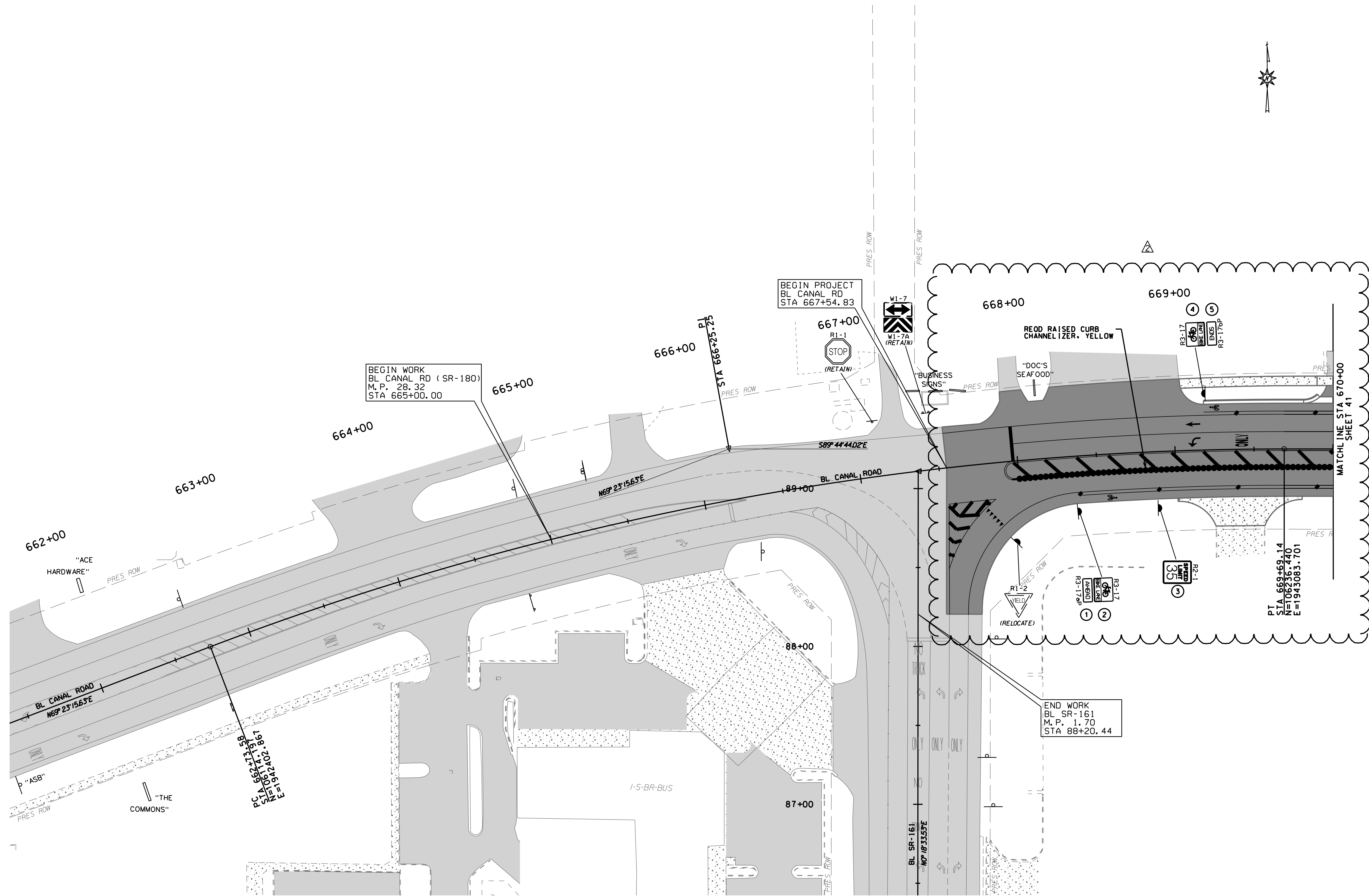
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NOTE: SEE SHEET ? FOR REQUIRED LAYOUT AND GRADING OF ROUNDABOUT AND PARKING LOT IMPROVEMENTS SHOWN ON THIS SHEET



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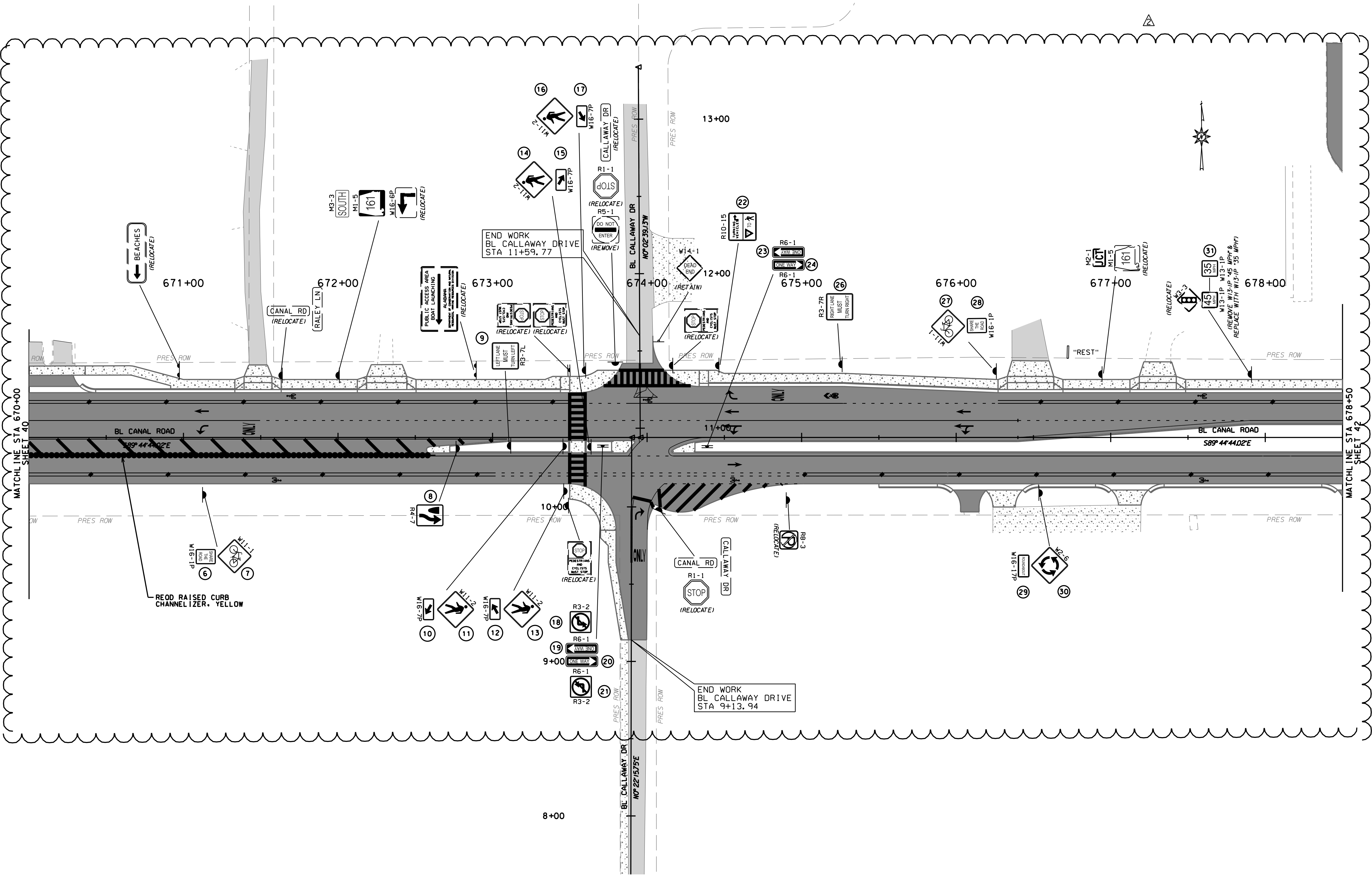


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CITY OF ORANGE BEACH, ALABAMA
 THOMPSON ENGINEERING
 THOMPSON ENGINEERING, INC.
 4751 MAIN STREET, SUITE F-212
 ORANGE BEACH, ALABAMA 36561
 PREPARED BY: ...
 CHECKED BY: ...
 APPROVED BY: ...
 SCALE: HORIZ 1"=30'
 DRAWN BY: ...



REVISION NO.	DESCRIPTION	DATE	BY:
1	ISSUE FOR BID, REVISION 2	5/4/22	CDW
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 ORANGE BEACH, ALABAMA
 THOMPSON ENGINEERING, INC.
 4751 MAIN STREET, SUITE F712
 ORANGE BEACH, ALABAMA 36561
 PREPARED BY: thompson ENGINEERING
 CHECKED BY: ..
 APPROVED BY: ..
 SCALE: HORIZ "1"=30'
 JOB NO.: 20-1101-0085
 DATE: DEC 2021
 SHEET NO.: 41
 SIGNING LAYOUT SHEET
 CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD

MATCHLINE STA 207+50
SHEET 47

208+00

209+00

210+00

678+00

680+00

681+00

682+00

683+00

MATCHLINE STA 678+50
SHEET 41

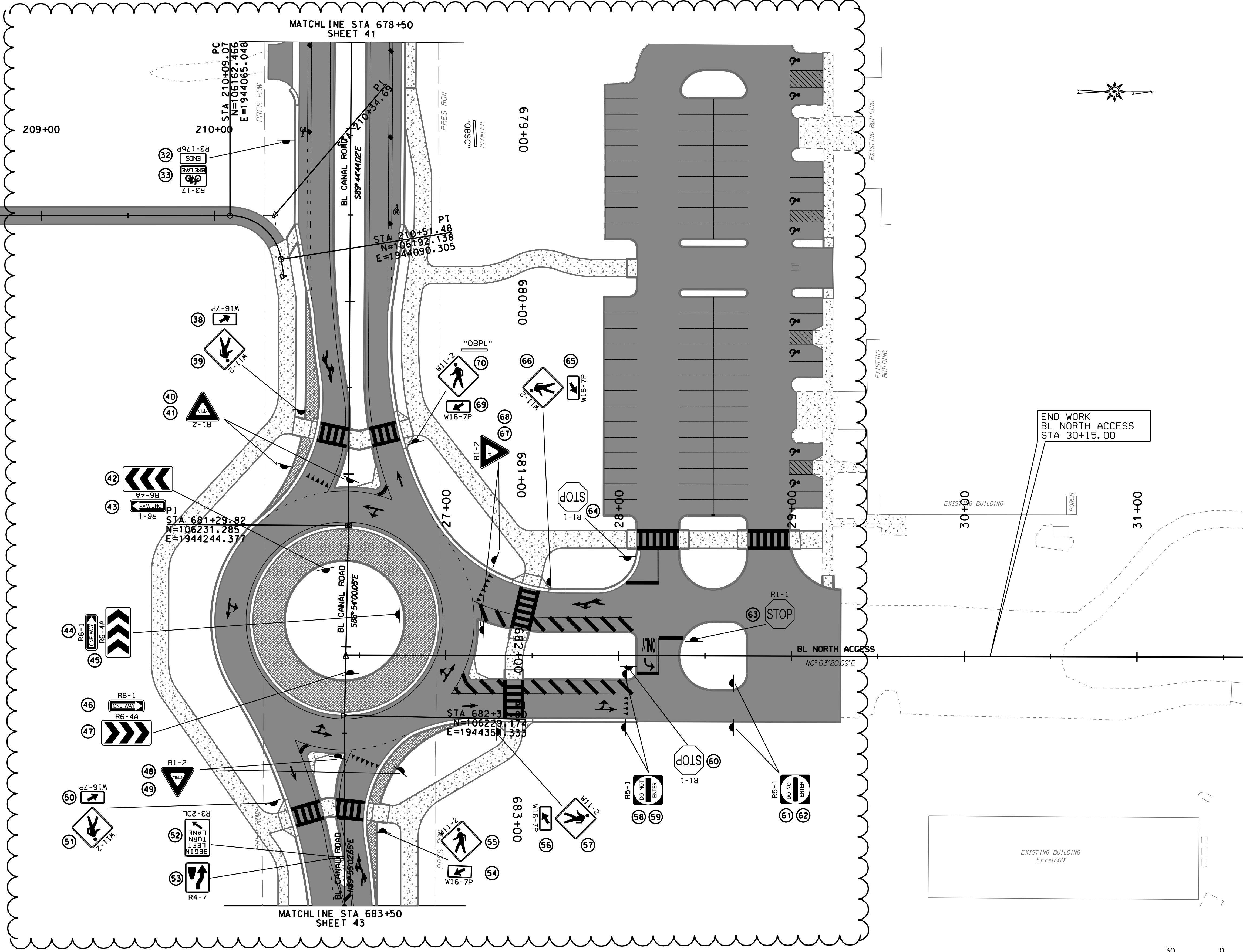
PC
STA 210+09.07
N=106162.466
E=1944065.048

PT
STA 210+51.48
N=106192.138
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PI
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N=106231.285
E=1944244.377

STA 682+31.80
N=106229.174
E=1944351.333

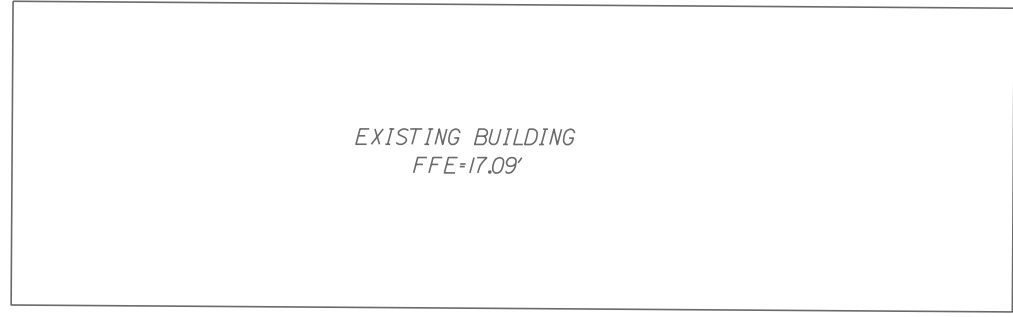
MATCHLINE STA 683+50
SHEET 43



END WORK
BL NORTH ACCESS
STA 30+15.00

EXISTING BUILDING
PORCH

BL NORTH ACCESS
N0°03'20.09\"/>



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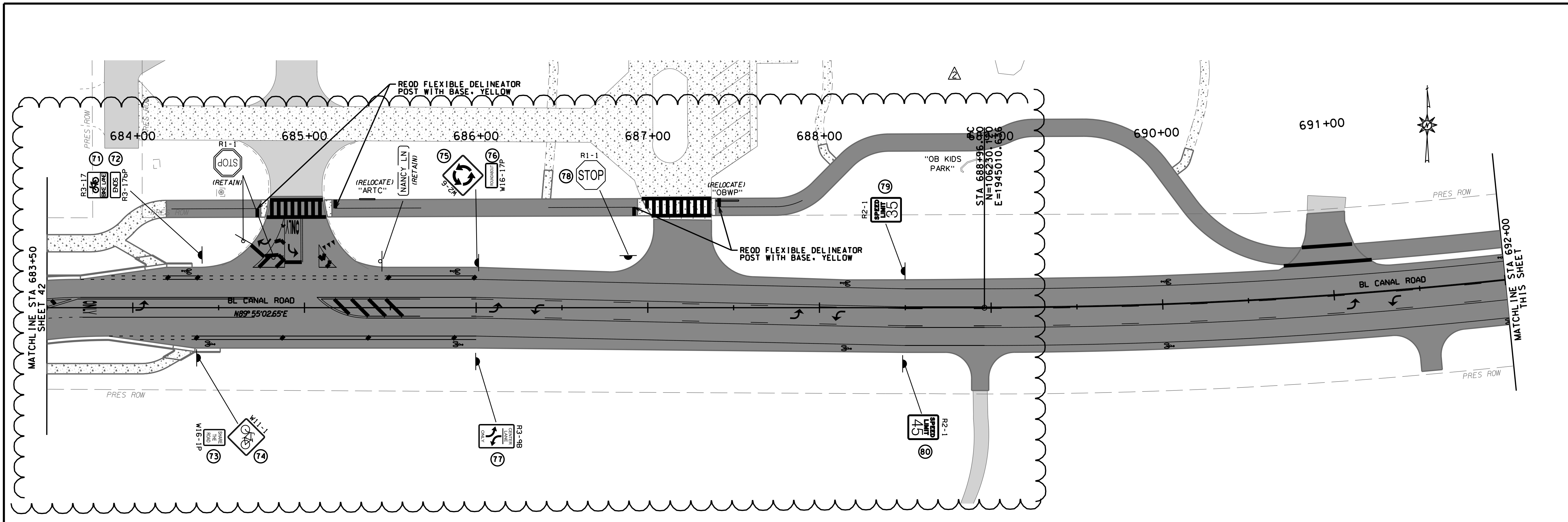
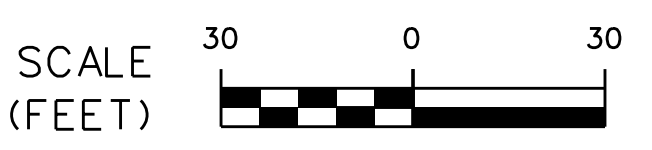
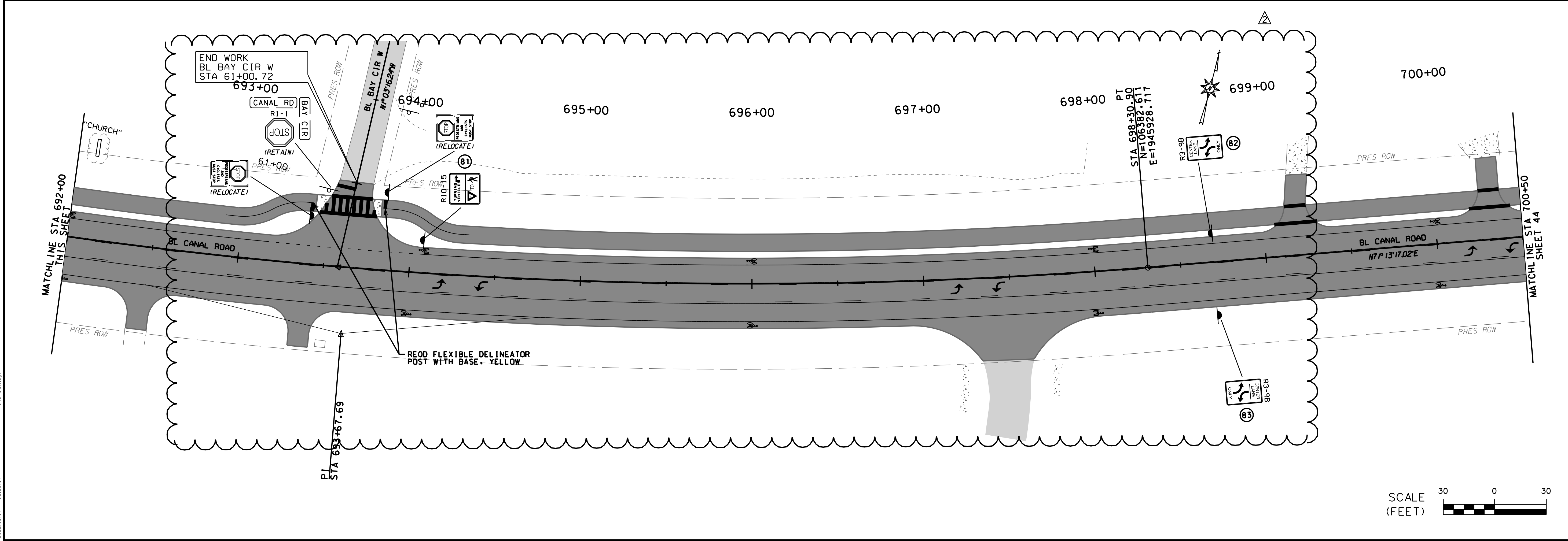
DATE	APPROVED BY:	CHECKED BY:	DATE
DEC 2021			

SCALE: HORIZ 1"=30'

JOB NO.: 20-1101-0085

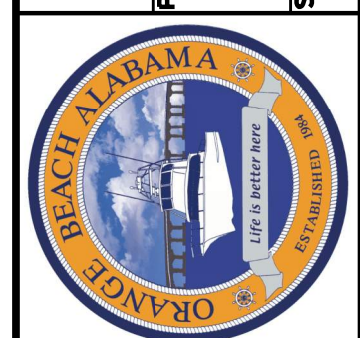
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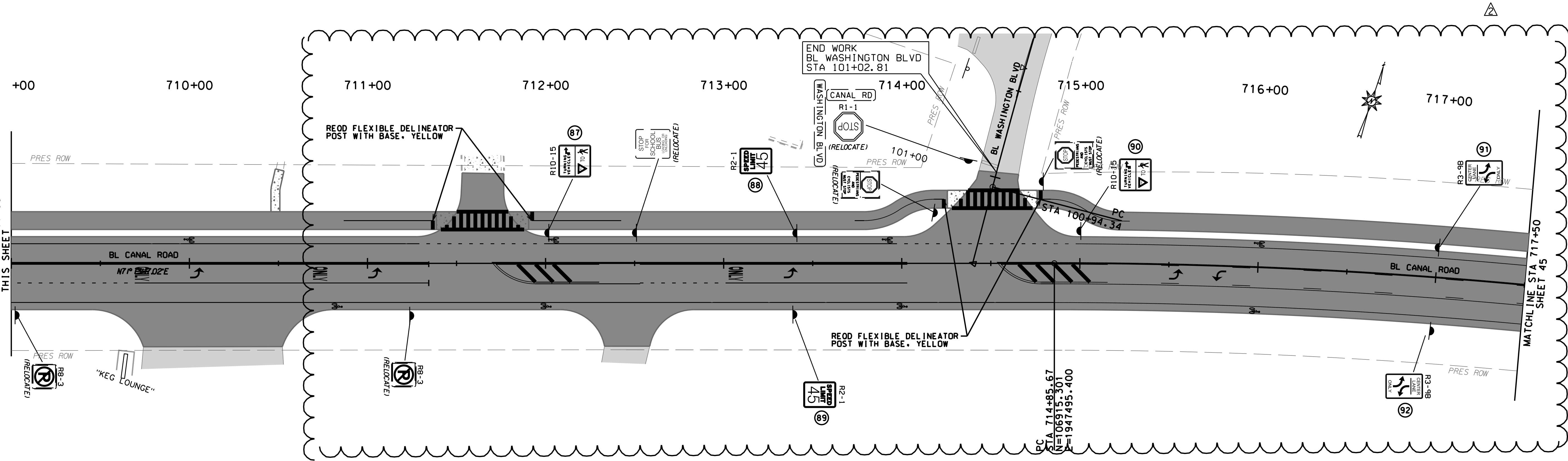
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CITY OF ORANGE BEACH, ALABAMA
 ORANGE BEACH, ALABAMA
 PREPARED BY: thompson ENGINEERING
 THOMPSON ENGINEERING, INC.
 4751 MAIN STREET, SUITE F-212
 ORANGE BEACH, ALABAMA 36561
 DRAWN BY: ... CHECKED BY: ... APPROVED BY: ...
 DATE: DEC 2021 JOB NO.: 20-1101-0085 REVISION NO.: ...
 SHEET NO.: 43
 CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD
 SIGNING LAYOUT SHEET

2022.05.04 02:23:02 044_SCH.dgn

MATCHLINE STA 709+00
THIS SHEET



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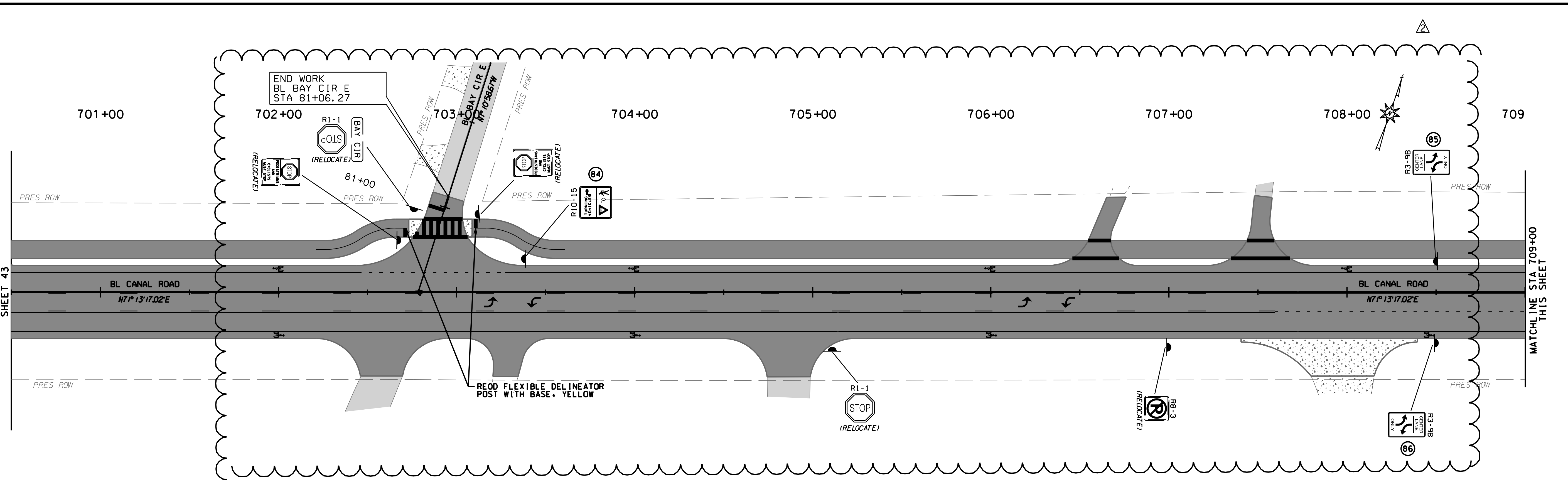
CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

thompson
ENGINEERING

THOMPSON ENGINEERING, INC.
4751 MAIN STREET, SUITE 212
ORANGE BEACH, ALABAMA 36561
(251) 378-6180

SHEET NO. :	44
CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD	
SIGNING LAYOUT SHEET	
DATE :	DEC 2021
APPROVED BY :	
CHECKED BY :	
DRAWN BY :	
SCALE :	HORIZ 1"=30'
JOB NO. :	20-1101-0085
REVISION NO. :	

MATCHLINE STA 700+50
SHEET 43



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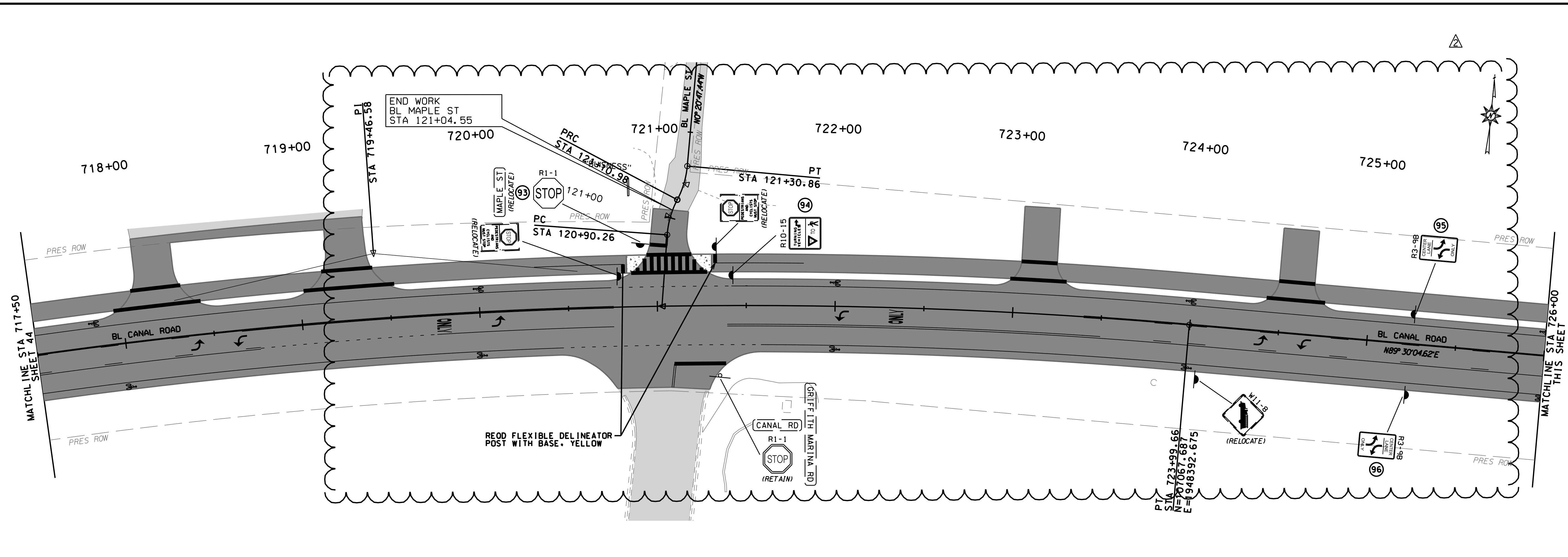
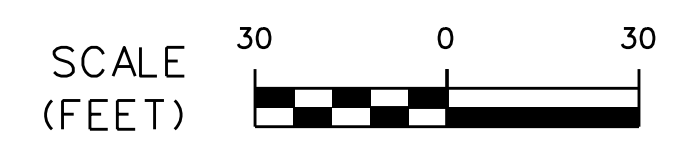
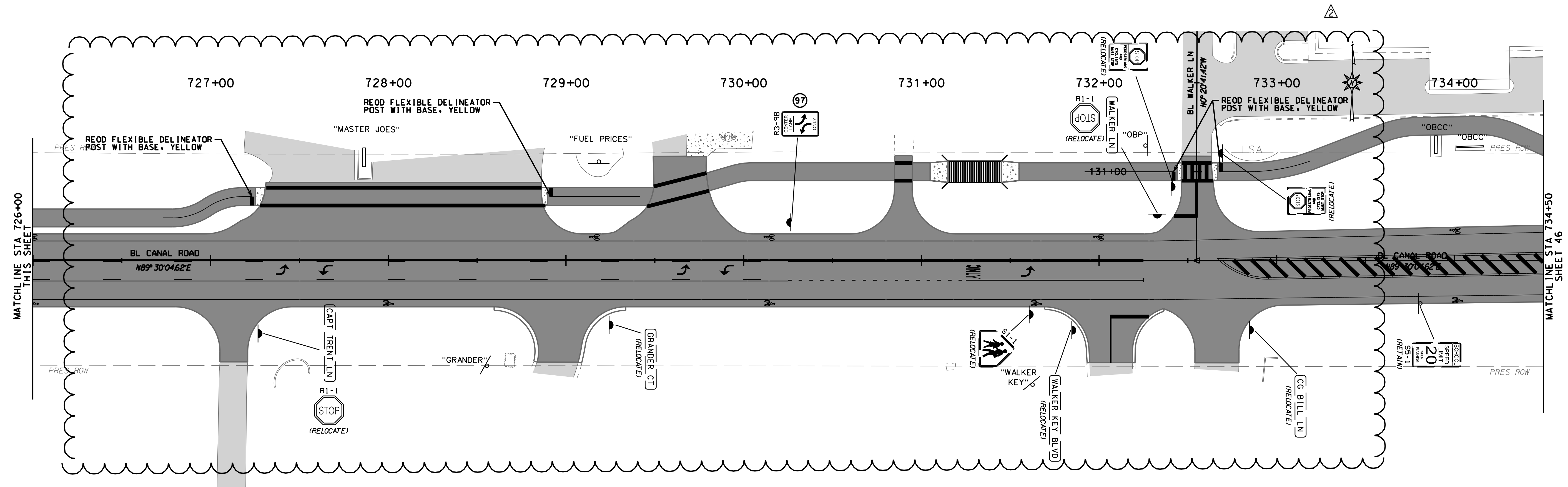
CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

thompson
ENGINEERING

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4751 MAIN STREET, SUITE 212
ORANGE BEACH, ALABAMA 36561
(251) 378-6180

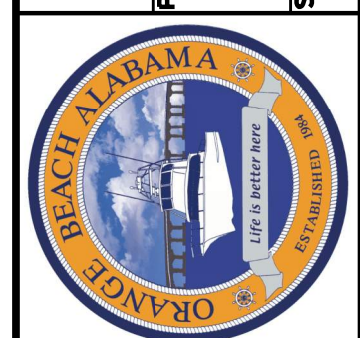
SHEET NO. :	44
CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD	
SIGNING LAYOUT SHEET	
DATE :	DEC 2021
APPROVED BY :	
CHECKED BY :	
DRAWN BY :	
SCALE :	HORIZ 1"=30'
JOB NO. :	20-1101-0085
REVISION NO. :	

2022.05.04 02:23:50 045_SGN.dgn



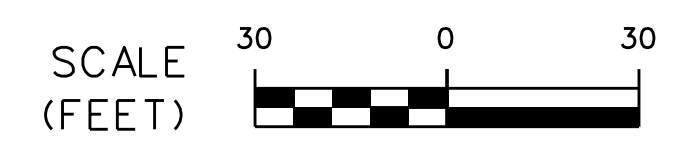
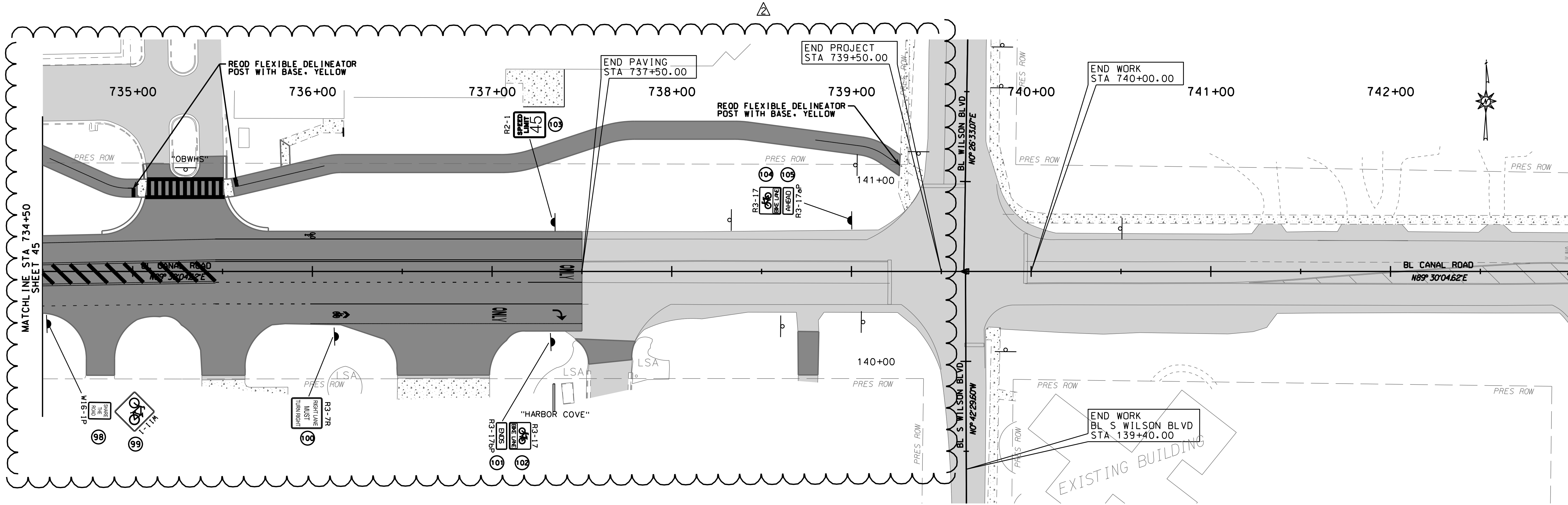
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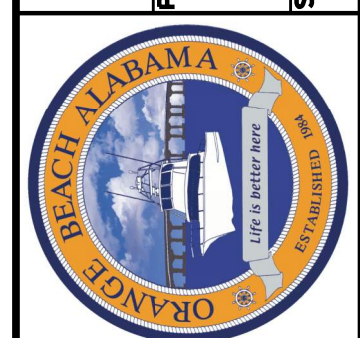
CITY OF ORANGE BEACH
 ORANGE BEACH, ALABAMA
 PREPARED BY: thompson ENGINEERING
 THOMPSON ENGINEERING, INC.
 4751 MAIN STREET, SUITE F-212
 ORANGE BEACH, ALABAMA 36561
 (251) 378-6180
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SHEET NO.: 45
 CANAL ROAD IMPROVEMENTS
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 SIGNING LAYOUT SHEET



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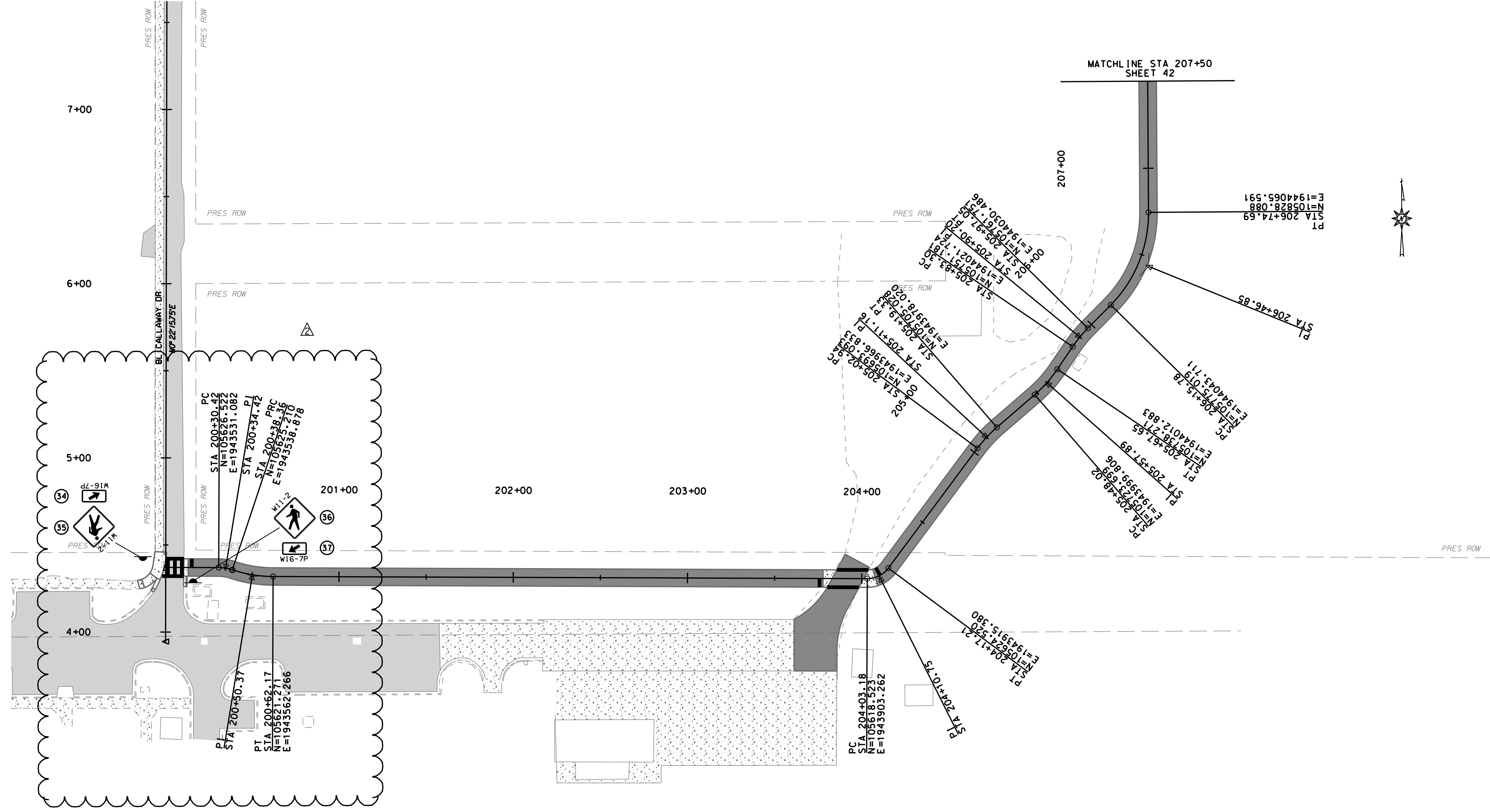
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CITY OF ORANGE BEACH
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SHEET NO.: 46
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