DEPARTMENT OF TRANSPORTATION AND ENGINEERING

MOVE ASCENSION PROGRAM
PARISH PROJECT: MA-18-11

ROUNDABOUT AT HWY. 929 AND HWY. 930 PRAIRIEVILLE, LA

INDEX TO SHEETS

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206–208	DW–01 (3 SHEET)	08/04/2022
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211–221	GR–MASH–ON (11 SHEETS)	04/13/2023
222	HS–03 (1 SHEET)	04/07/2014
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SPECIAL DETAILS

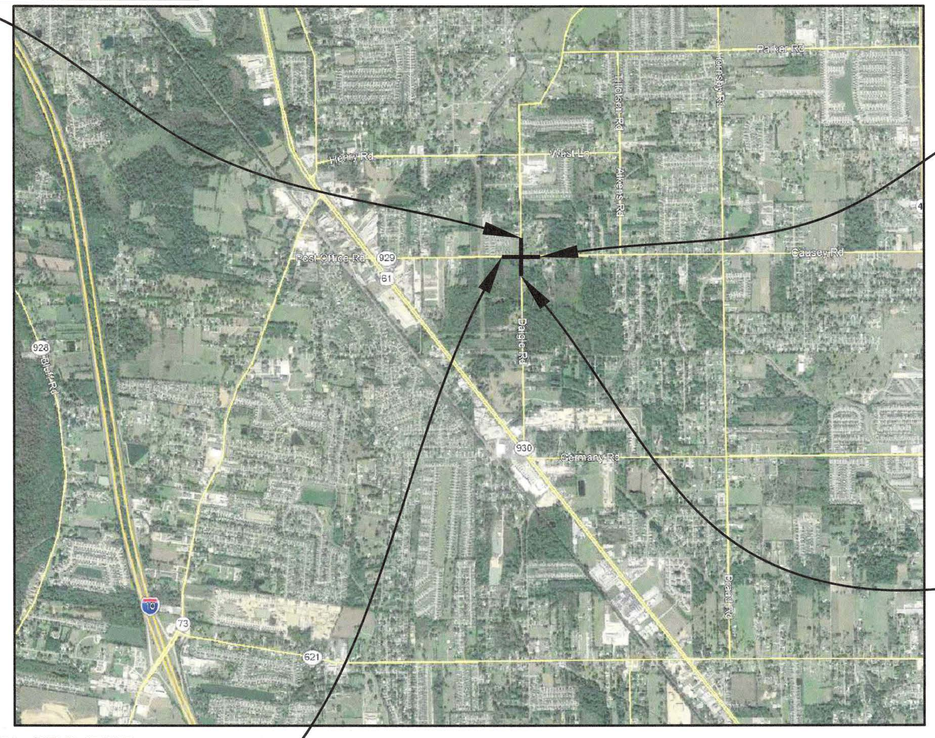
300	LD–02 (1 SHEET)	07/13/2011
301	SETSRD1 (1 SHEET)	06/27/2018
302	SETSD1 (1 SHEET)	06/27/2018
304	SQUARE TUBING POSTS WITH DIRECT DRIVE ANCHOR (1 SHEET)	2/14/2017
400–407	CROSS SECTIONS	

ROADWAY CLASSIFICATION: UA

ASCENSION PARISH HWY. 929 POSTED SPEED = 40 mph
ASCENSION PARISH HWY. 929 DESIGN SPEED = 40 mph
ASCENSION PARISH HWY. 930 POSTED SPEED = 35/45 mph
ASCENSION PARISH HWY. 930 DESIGN SPEED = 35/45 mph
ROUNDABOUT DESIGN SPEED = 25 MPH

20 YEAR DESIGN ADT: 8200

END PARISH PROJECT
ASCENSION PARISH HWY. 930
STA. 207+65.41

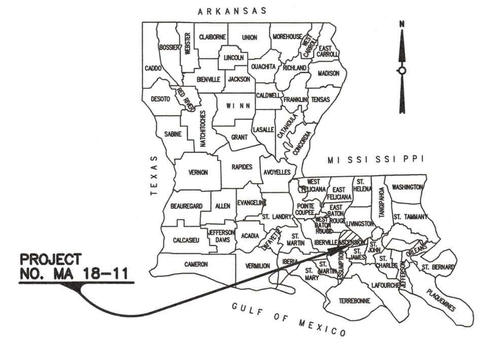


BEGIN PARISH PROJECT
ASCENSION PARISH HWY. 929
100+64.03

LAYOUT MAP
SCALE: 1" = 2000'

END PARISH PROJECT
ASCENSION PARISH HWY. 929
STA. 108+38.00

BEGIN PARISH PROJECT
ASCENSION PARISH HWY. 930
STA. 200+32.41



PROJECT NO. MA 18–11

VICINITY MAP
N.T.S.

LA One Call™ — CALL LOUISIANA ONE CALL 811 OR 1–800–272–3020
LOUISIANA STATE LAW, SECTION R.S.40:1749.15 REQUIRES EXCAVATORS AND DEMOLISHERS TO NOTIFY A REGIONAL NOTIFICATION CENTER BY TELEPHONE 48 TO 120 HOURS IN ADVANCE OF ANY EXCAVATION OR DEMOLITION ACTIVITY. THE OWNERS/OPERATORS OF ANY UNDERGROUND FACILITY MUST THEN MARK THE AREA OR PROVIDE INFORMATION THAT WILL ENABLE AN EXCAVATOR OR DEMOLISHER TO DETERMINE THE LOCATION OF UNDERGROUND FACILITIES.

ASCENSION PARISH GOVERNMENT

PARISH PRESIDENT – CLINT COINTMENT

PARISH COUNCIL

DIST. 1	–	COUNCILMAN	OLIVER JOSEPH
DIST. 2	–	COUNCILMAN	JOEL ROBERT
DIST. 3	–	COUNCILMAN	TRAVIS TURNER
DIST. 4	–	COUNCILMAN	BRETT ARCENEAUX
DIST. 5	–	COUNCILMAN	TODD VARNADO
DIST. 6	–	COUNCILMAN	CHASE MELANCON
DIST. 7	–	COUNCILMAN	BRIAN HILLENSBECK
DIST. 8	–	COUNCILMAN	BLAINE PETITE
DIST. 9	–	COUNCILWOMAN	PAM ALONSO
DIST. 10	–	COUNCILMAN	DENNIS CULLEN
DIST. 11	–	COUNCILMAN	MICHAEL MASON

TYPE OF CONSTRUCTION:

ASPHALT PAVEMENT AND BASE COURSE, CURB, DRAINAGE, GRADING, MILLING, AND STRIPING

DATUM USED:	NAVD 88
MAGNETIC VAR:	NONE
BEARINGS ARE:	GRID

RECOMMENDED FOR APPROVAL BY:

JANET L. EVANS, P.E.
VOLKERT, INC.
10/18/24
DATE

STATE OF LOUISIANA
J. L. EVANS
REG. NO. 21307
REGISTERED PROFESSIONAL ENGINEER
CIVIL ENGINEERING
10/18/24

SHEET NUMBER	01
PARISH	ASCENSION
CITY	GONZALES, LA
PROJECT	MA–18–11
DESIGNED	ANB
CHECKED	AMG
DETAILED	PML
CHECKED	RPO
DATE	JULY 2024
SHEET	1 OF 1

NO.	DATE	REVISION DESCRIPTION	BY
1			

TITLE SHEET & LAYOUT MAP
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LOUISIANA DEPT. OF TRANSPORTATION AND DEVELOPMENT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, 2016 EDITION, EXCEPT AS MODIFIED BY PROJECT TECHNICAL SPECIFICATIONS AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND ABIDING BY THE SPECIFICATIONS FOR THIS PROJECT.

2. ONSITE REPRESENTATIVE SHALL HAVE ON HAND, AT ALL TIMES:
   (1) TRAFFIC CONTROL PLAN
   (2) EROSION CONTROL PLAN.

3. ALL STATIONS SHOWN REFER TO CONSTRUCTION CENTERLINE UNLESS OTHERWISE SPECIFIED.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR AND COMPLY WITH TESTING REQUIRED BY THE LOCAL GOVERNING AGENCIES IN ADDITION TO THE TESTING REQUIREMENTS OUTLINED IN THE SPECIFICATIONS.

5. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER OF ANY PERCEIVED CONFLICTS, AMBIGUOUS ITEMS OR DEFICIENCIES IN THE PLANS, SPECIFICATIONS, GENERAL NOTES OR RELATED CONTRACT DOCUMENTS.

6. CONTRACTOR SHALL SUBMIT FOR ALL REGULATORY & ENVIRONMENTAL PERMITS AND COMPLY WITH ALL SPECIFIC AND GENERAL CONDITIONS STATED IN EACH.

7. ANY SILT, SAND, OR SAND/CLAY DEPOSITED ON LOCAL, PARISH, OR STATE HIGHWAYS BY THE CONTRACTOR'S CONSTRUCTION ACTIVITIES WILL BE REMOVED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY, EFFICIENCY, AND ADEQUACY OF HIS OPERATION AND SHALL INITIATE HIS OWN SAFETY PROGRAM. THE CONTRACTOR SHALL COMPLY WITH ALL DEPARTMENT OF LABOR, SAFETY AND HEALTH REGULATIONS AS SPECIFIED UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AS AMENDED, AND THE CONTRACT WORK HOURS AND SAFETY STANDARDS ACT.

9. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE IF THE REQUIRED CONSTRUCTION CAN BE PERFORMED WITHIN THE AREA PROVIDED AND COMPLY WITH THE REQUIREMENTS OF THE SAFETY AND HEALTH REGULATION (OSHA) FOR CONSTRUCTION PROJECTS OF THIS TYPE. ANY SAFETY MEASURES OR METHODS OF CONSTRUCTION THAT ARE NECESSARY IN THE CONSTRUCTION OF THIS PROJECT TO COMPLY WITH THESE REGULATIONS IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE PROVIDED WITH ALL COSTS TO BE INCLUDED IN THE VARIOUS PAY ITEMS OF THE CONTRACT (NO DIRECT PAYMENT).

10. SHOULD THE CONTRACTOR ELECT TO OBTAIN AREAS FOR THE PURPOSE OF STORING MATERIALS AND EQUIPMENT OR FOR CONDUCTING HIS WORK OPERATIONS, HE SHALL FURNISH THE OWNER AND ENGINEER A COPY OF THE AGREEMENT BETWEEN HIM AND THE OWNER OF THE PROPERTY PRIOR TO USING THE AREA (NO DIRECT PAYMENT). ANY CURB AND GUTTER, SIDEWALK, DRIVEWAY, ETC., DAMAGED BY THE CONTRACTOR WHEN HAULING MATERIALS OR MOVING EQUIPMENT IN OR OUT FROM THIS STORAGE AREA SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.

11. CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS DURING CONSTRUCTION WHICH SHOW AS-BUILT CONDITIONS OF ALL WORK INCLUDING PIPING, DRAINAGE STRUCTURES, OUTLET STRUCTURES, DIMENSIONS, ETC. THESE DRAWINGS SHALL ALSO DENOTE ACTUAL QUANTITIES, AND LOCATION. THESE RECORD DRAWINGS ARE TO BE PROVIDED TO THE PROJECT ENGINEER PRIOR TO REQUESTING FINAL INSPECTION. THE ENGINEER WILL FURNISH THE CONTRACTOR AN "ISSUED FOR CONSTRUCTION" SET OF DRAWINGS TO BE USED FOR THIS PURPOSE. AS-BUILT DRAWINGS MUST BE SUBMITTED PRIOR TO FINAL ACCEPTANCE.

12. CLEARING & GRUBBING SHALL INCLUDE CLEANUP OF EXISTING R.O.W.'s AND POSSIBLE AREAS NOT SHOWN IN CONTRACT DOCUMENTS, AS DIRECTED BY THE ENGINEER. TRIMMING SHALL BE INCLUDED IN THIS ITEM. TREE REMOVAL AND TREE TRIMMING WITHIN THE R.O.W. MUST BE CONDUCTED UNDER THE SUPERVISION OF AN ARBORIST AND THE ON-SITE ENGINEER.

13. SPECIAL CARE IS TO BE TAKEN SO TREES REMAIN UNHARMED DURING CONSTRUCTION OUTSIDE THE LIMITS OF CONSTRUCTION OR OUTSIDE OF THE CLEAR ZONE WHICHEVER IS FURTHER.

14. THE AREAS HYDRO-SEEDED SHALL HAVE CONTINUED WATERING UNTIL THE VEGETATION HAS TAKEN ROOT AND ESTABLISHED A GOOD, HEALTHY GROWTH IN ACCORDANCE WITH THE ENGINEER AND THE OWNER.

15. DISTURBED AREAS SHALL BE RESTORED TO PRIOR CONDITION OR BETTER BY USE OF HYDRO-SEEDING ACCORDING TO LADOTD SPECIFICATIONS.

16. GROUND SHALL BE GRADED AWAY FROM THE EDGE OF THE ROADWAY.

17. THE CONTRACTOR SHALL DISPOSE OF ALL WASTE AND UNSUITABLE MATERIAL OFF THE PROJECT SITE AT A SITE (LOCATED ABOVE MEAN HIGH WATER ELEVATION) FURNISHED BY THE CONTRACTOR. THERE WILL BE NO ADDITIONAL COMPENSATION FOR EITHER USING THE WASTE MATERIAL AS DIRECTED OR FOR DISPOSING OF IT OFF THE PROJECT SITE.

18. ALL EXCAVATION AND BACKFILL NECESSARY FOR THE INSTALLATION OF STORM DRAIN PIPE SHALL BE INCLUDED IN THE UNIT PRICE OF THE PIPE UNLESS OTHERWISE NOTED.

19. THE CONTRACTOR SHALL HAVE ALL MATERIAL TO BE IMPORTED AS FILL OR BORROW APPROVED BY THE ENGINEER PRIOR TO DELIVERY TO THE SITE.

20. REFER TO SECTION 1019 OF 2016 LA DOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES FOR THE GEOTEXTILE FABRIC PLACEMENT AND MATERIAL REQUIREMENTS.

25. THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENTS OF THE WATER, SEWER, GAS, CABLE, TELEVISION, TELEPHONE AND POWER COMPANY, TEN (10) DAYS IN ADVANCE THAT SHE/HE INTEND TO START WORK IN A SPECIFIED AREA. THE OWNER DISCLAIMS ANY RESPONSIBILITY FOR THE SUPPORT AND PROTECTION OF DRAINS, WATER PIPES, GAS PIPES, CONDUITS OF ANY KIND, UTILITIES OR OTHER STRUCTURES OWNED BY THE CITY, COUNTY, STATE OR BY PRIVATE OR PUBLIC UTILITIES LEGALLY OCCUPYING ANY STREET, ALLEY, PUBLIC PLACE OR RIGHT OF WAY.

26. ANY EXISTING CULVERT OR PIPE IN THE CONSTRUCTION AREA TO REMAIN SHALL BE CLEARED OF ANY FILL OR DEBRIS, DUE TO CONSTRUCTION, TO THE EXISTING FLOW LINE WITH NO DIRECT PAYMENT.

27. THE CONTRACTOR SHALL NOTE THAT ALL WORK PERFORMED WITHIN PUBLIC OR PRIVATE RIGHT-OF-WAY OR EASEMENTS AS ASSOCIATED WITH THE CONSTRUCTION OF THE PROJECT SHALL BE SUBJECT TO EROSION CONTROL PREVENTION TO PROTECT THE STABILITY OF ALL ROADS, STREETS, AND DRIVEWAYS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE WORK AREA AT ALL TIMES DURING CONSTRUCTION. ALL WORK AND SITE RESTORATION SHALL BE GUARANTEED AS DEFINED IN THE SPECIFICATIONS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ANY DAMAGE WHICH OCCURS TO ALL ROADWAYS, STREETS, AND DRIVEWAYS WHICH ARE A RESULT OF CONSTRUCTION ACTIVITY ASSOCIATED WITH THIS PROJECT. THE CONTRACTOR SHALL NOT BE REIMBURSED FOR ANY ADDITIONAL WORK ASSOCIATED WITH RESTORATION AND MAINTENANCE OF THE WORK AREA DURING THE CONSTRUCTION AND/OR GUARANTEE PERIOD AS DEFINED IN THE SPECIFICATIONS.

28. EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING & ABIDING BY THE LDEQ GENERAL PERMIT FOR DISCHARGES OF STORM WATER FROM CONSTRUCTION, INCLUDING PREPARATION & SUBMITTAL OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).

29. THE CONTRACTOR SHALL REPAIR AND REESTABLISH GRADES AND VEGETATION IN SETTLED, ERODED AND RUTTED AREAS. SUGGESTIONS OF ANY ADDITIONAL CONTROL OF SEDIMENTATION AND EROSION NEEDED SHALL BE DIRECTED TO THE ENGINEER.

30. EROSION CONTROL DEVICES SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH DEPT. OF TRANSPORTATION AND DEVELOPMENT STANDARD PLANS:

STANDARD PLAN NO.	SHEET NO.	DESCRIPTION
EC-01	1 OF 2	TEMPORARY EROSION CONTROL DETAILS
EC-01	2 OF 2	TEMPORARY EROSION CONTROL DETAILS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINES ISSUED BY LDEQ FOR FAILURE TO INSTALL AND MAINTAIN NECESSARY EROSION CONTROL MEASURES.

31. CONTRACTOR SHALL, IN WRITING, REQUEST TO MEET WITH THE ENGINEER PRIOR TO COMPLETION OF THE PROJECT FOR PUNCH LIST/ACCEPTANCE OF PROJECT.

32. TEMPORARY TRAFFIC CONTROL PLANS SHALL BE CONSTRUCTED BY THE CONTRACTOR AND REVIEWED BY THE ENGINEER USING THE LATEST LADOTD TEMPORARY TRAFFIC CONTROL STANDARDS LISTED ON THE TITLE SHEET.

33. TREES NOTED TO BE REMOVED SHALL BE REMOVED UNDER ITEM 201-01-00200 CLEARING & GRUBBING.

34. EROSION CONTROL SYSTEM SHALL BE MATTING THAT IS CONSISTENT WITH SECTION 1018 OF THE LSSRB. USE TYPE B FOR ANYTHING LESS THAN OR EQUAL TO A 3:1 SLOPE.

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
10/18/24

SHEET NUMBER 01a

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA-18-11

DESIGNED	DETAILED	DATE	SHEET
ANB	PML	JULY 2024	1 OF 1
CHECKED	CHECKED		
ANG	RPO		

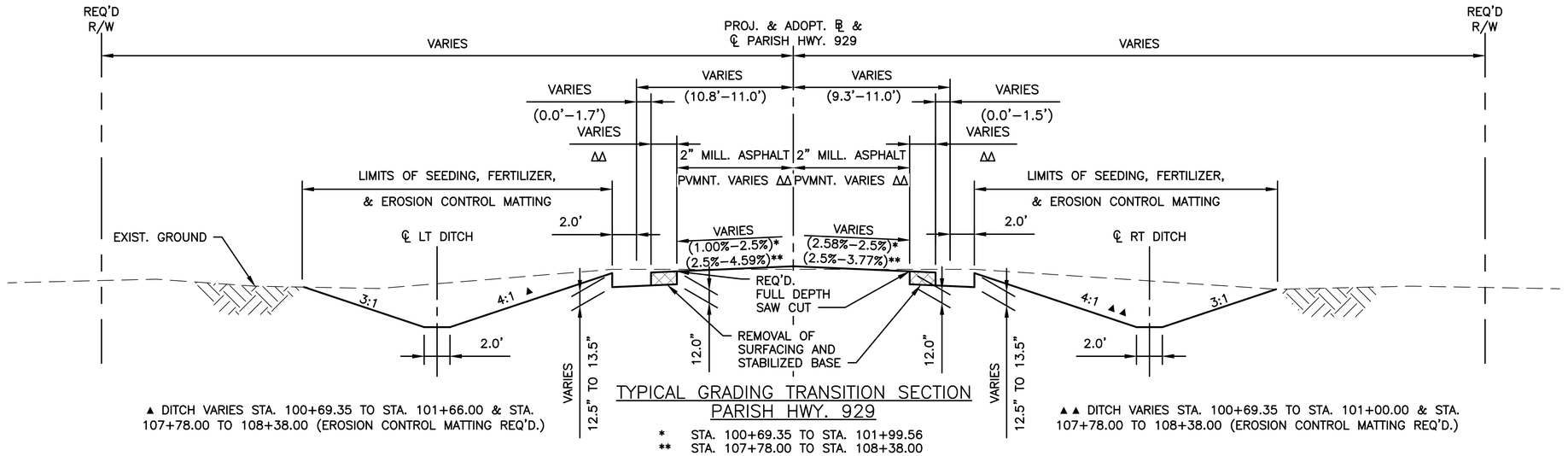
NO.	DATE	REVISION DESCRIPTION	BY

GENERAL NOTES

HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT

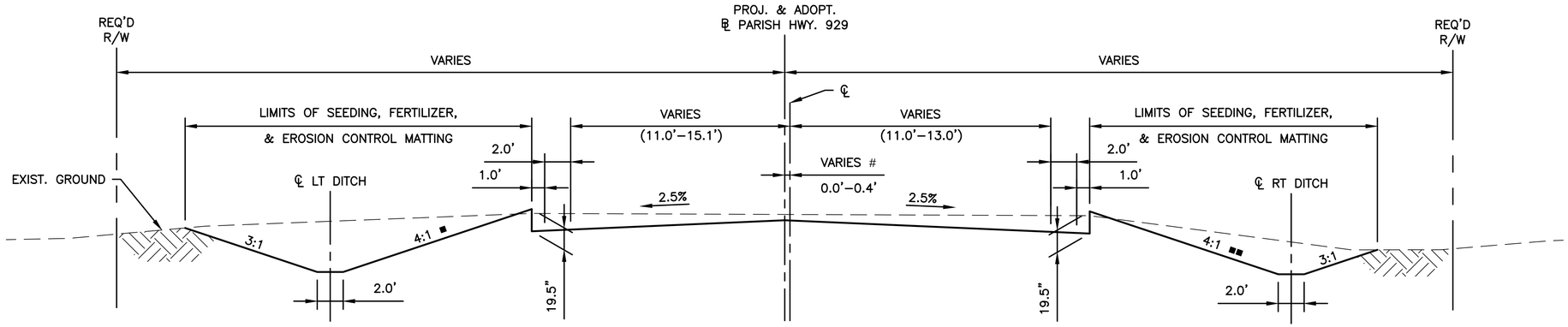


TYPICAL GRADING TRANSITION SECTION
PARISH HWY. 929

▲ DITCH VARIES STA. 100+69.35 TO STA. 101+66.00 & STA. 107+78.00 TO 108+38.00 (EROSION CONTROL MATTING REQ'D.)

* STA. 100+69.35 TO STA. 101+99.56
** STA. 107+78.00 TO STA. 108+38.00

▲▲ DITCH VARIES STA. 100+69.35 TO STA. 101+00.00 & STA. 107+78.00 TO 108+38.00 (EROSION CONTROL MATTING REQ'D.)



TYPICAL GRADING SECTION
PARISH HWY. 929

STA. 101+99.56 TO STA. 102+56.00
STA. 105+22.00 TO STA. 107+78.00

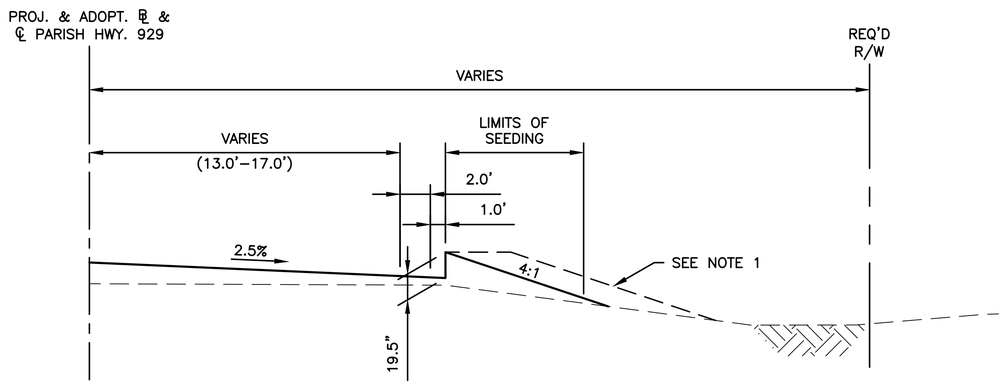
STA. 101+99.56 TO STA. 102+56.00
STA. 106+35.01 TO STA. 107+78.00

VARIES STA. 105+22.00 TO STA. 106+06.00

■ DITCH VARIES STA. 105+22.00 TO STA. 107+78.00 (EROSION CONTROL MATTING REQ'D.)

■■ DITCH VARIES STA. 107+20.00 TO STA. 107+78.00 (EROSION CONTROL MATTING REQ'D.)

ΔΔ SEE GEOMETRIC DETAIL SHEETS FOR VARYING WIDTHS



TYPICAL GRADING SECTION
PARISH HWY. 929
STA. 105+22.00 TO STA. 106+35.01

NOTE:

1. WHERE GUARDRAIL IS REQ'D. USE DETAIL 1 (SEE SHEET 02b).

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/18/24

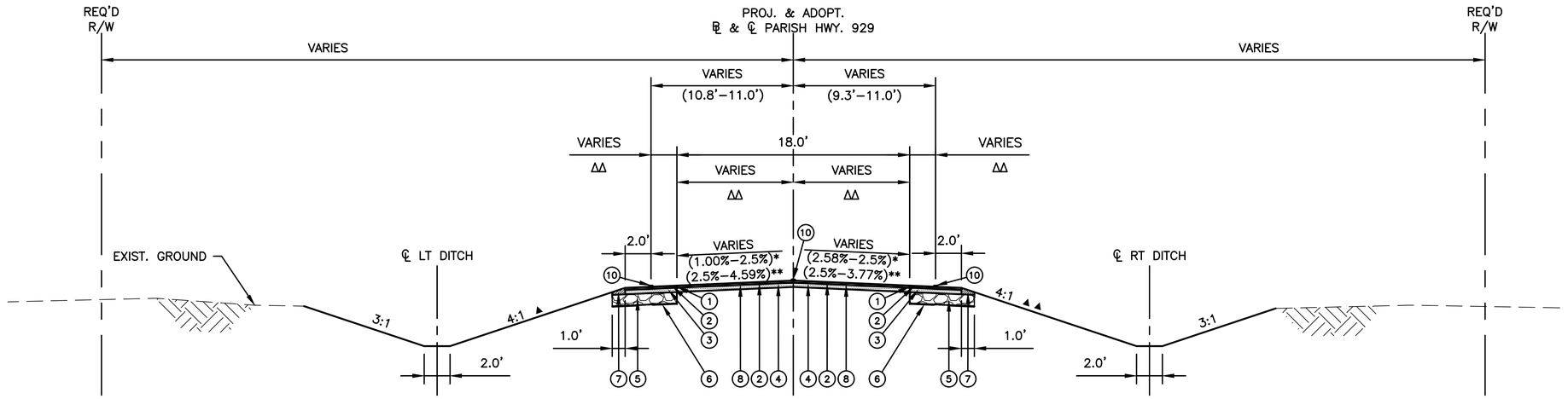
SHEET NUMBER	02
PARISH	ASCENSION
CITY	GONZALES, LA
PROJECT	MA-18-11
DESIGNED	ANB
CHECKED	AMG
DETAILED	RPO
CHECKED	
DATE	JULY 2024
SHEET	1 OF 8

NO.	DATE	REVISION DESCRIPTION	BY

TYPICAL GRADING SECTIONS
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT

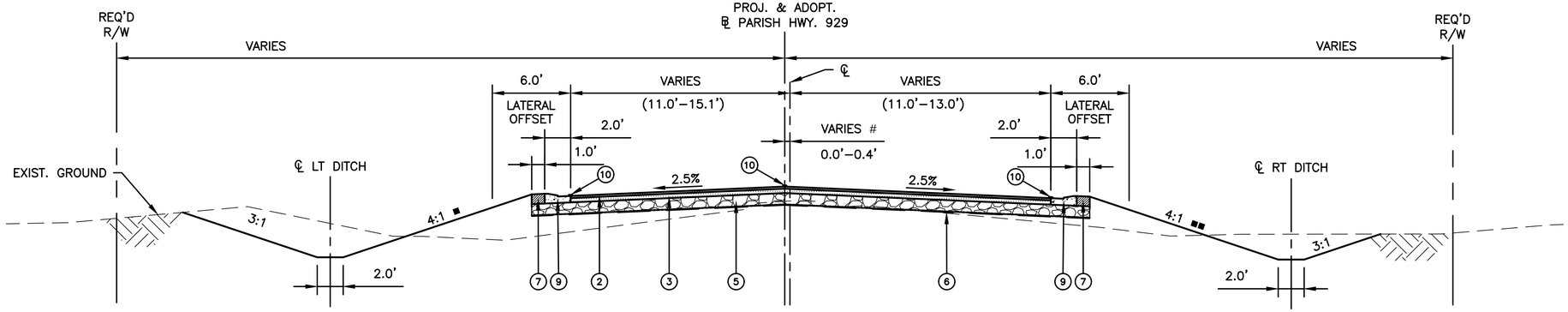


▲ DITCH VARIES STA. 100+69.35 TO STA. 101+66.00 & STA. 107+78.00 TO 108+38.00 (EROSION CONTROL MATTING REQ'D.)

TYPICAL FINISHED TRANSITION SECTION PARISH HWY. 929

* STA. 100+69.35 TO STA. 101+99.56
** STA. 107+78.00 TO STA. 108+38.00

▲▲ DITCH VARIES STA. 100+69.35 TO STA. 101+00.00 & STA. 107+78.00 TO 108+38.00 (EROSION CONTROL MATTING REQ'D.)



TYPICAL FINISHED SECTION PARISH HWY. 929

STA. 101+99.56 TO STA. 102+56.00
STA. 105+22.00 TO STA. 107+78.00

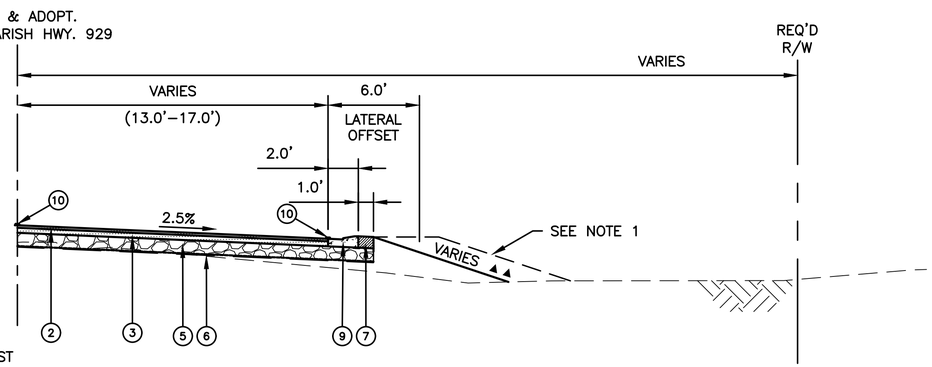
STA. 101+99.56 TO STA. 102+56.00
STA. 106+35.01 TO STA. 107+78.00

VARIES STA. 105+22.00 TO STA. 106+06.00

■ DITCH VARIES STA. 105+22.00 TO STA. 107+78.00 (EROSION CONTROL MATTING REQ'D.)

■■ DITCH VARIES STA. 107+20.00 TO STA. 107+78.00 (EROSION CONTROL MATTING REQ'D.)

ΔΔ SEE GEOMETRIC DETAILS SHEETS FOR VARYING WIDTHS



TYPICAL FINISHED SECTION PARISH HWY. 929

STA. 105+22.00 TO STA. 106+35.01

LEGEND:

1. SAW CUTTING
2. 2" ASPHALT CONCRETE WEARING COURSE (LEVEL 2)
3. 4" ASPHALT CONCRETE BINDING COURSE (LEVEL 2)
4. ASPHALT CONCRETE – (LEVELING) (THICKNESS VARIES)
5. 10" CLASS II BASE COURSE (CRUSHED STONE OR RECYCLED P.C.C.)
6. GEOTEXTILE FABRIC (NO DIRECT PAY)
7. EMBANKMENT
8. 2" MILLING ASPHALT PAVEMENT
9. 3" MOUNTABLE CURB & GUTTER (DETAIL 2 OF SHEET 02h)
10. PAVEMENT STRIPING AND/OR REFLECTORIZED MARKERS

NOTE:

1. WHERE GUARDRAIL IS REQ'D. USE BARRIER CURB DETAIL (SEE SHEET 02h).
2. LIME TREATMENT TO BE USED ONLY AS NEEDED, AS PER REQUEST OF THE PROJECT ENGINEER ON SITE. PAID FOR UNDER ITEM NO. 304–01–00100.
3. SOIL STRIPPING SHALL BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT AND LADOTD STANDARD SPECIFICATIONS FOR ROAD & BRIDGES AT THE DIRECTION OF THE ENGINEER ON SITE. IT SHALL BE PAID UNDER GENERAL EXCAVATION 203–01–00100 AND EMBANKMENT 203–03–00100.

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
10/18/24

SHEET NUMBER 02a

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA–18–11

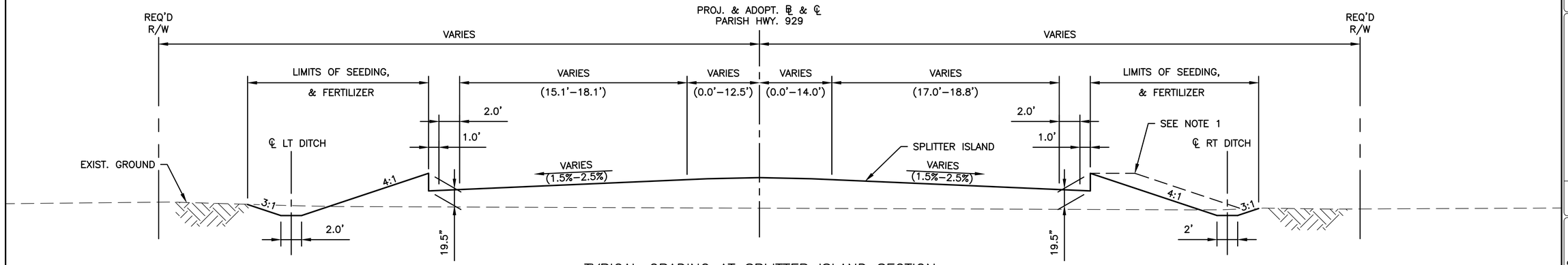
DESIGNED	CHECKED	DETAILED	CHECKED	DATE	SHEET
ANB	AMG	##	RPD	JULY 2024	2 OF 8

NO.	DATE	REVISION DESCRIPTION	BY

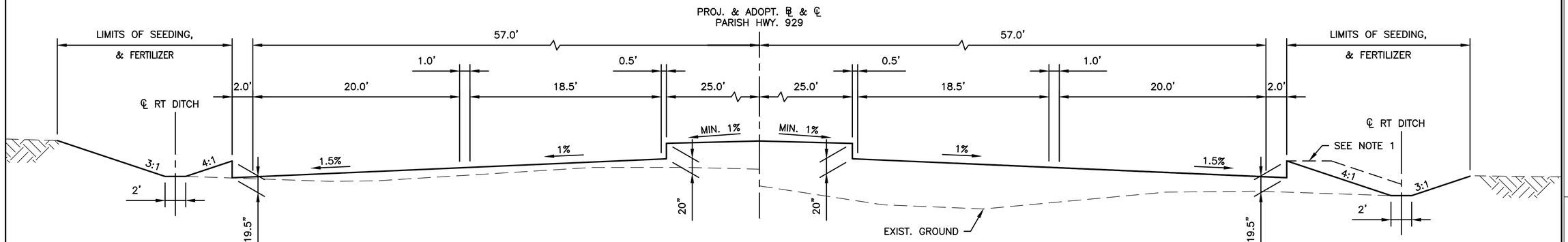
TYPICAL ROAD SECTIONS
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

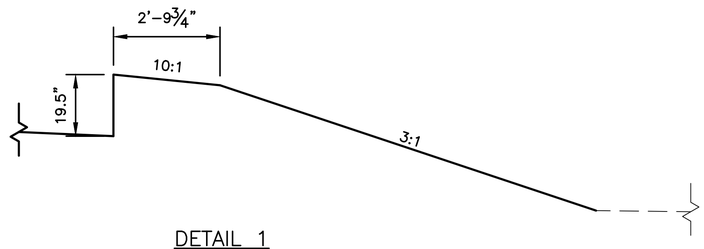
VOLKERT



TYPICAL GRADING AT SPLITTER ISLAND SECTION
PARISH HWY. 929
STA. 102+56.00 TO STA. 103+35.00
STA. 104+65.00 TO STA. 105+22.00



TYPICAL GRADING AT ROUNDABOUT SECTION
PARISH HWY. 929 & 930
STA. 104+00.00
STA. 204+00.00



DETAIL 1
(REQ'D. WHERE GUARDRAIL IS USED)
STA. 104+33.80 TO STA. 106+16.00

NOTE:

1. WHERE GUARDRAIL IS REQ'D. USE DETAIL 1 (THIS SHEET).

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
10/18/24

SHEET NUMBER 02b

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA–18–11

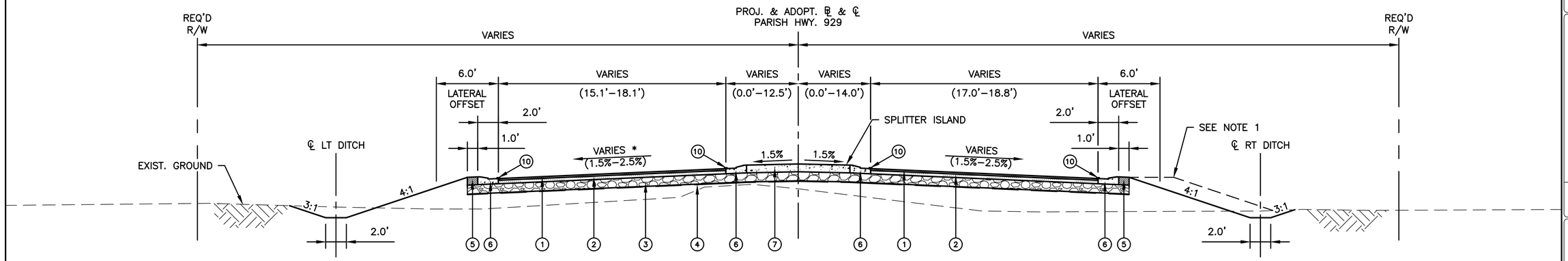
DESIGNED	CHECKED	DETAILED	CHECKED	DATE	SHEET
ANB	AMG	RPO		JULY 2024	3 OF 8

NO.	DATE	REVISION DESCRIPTION	BY

TYPICAL GRADING SECTIONS
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

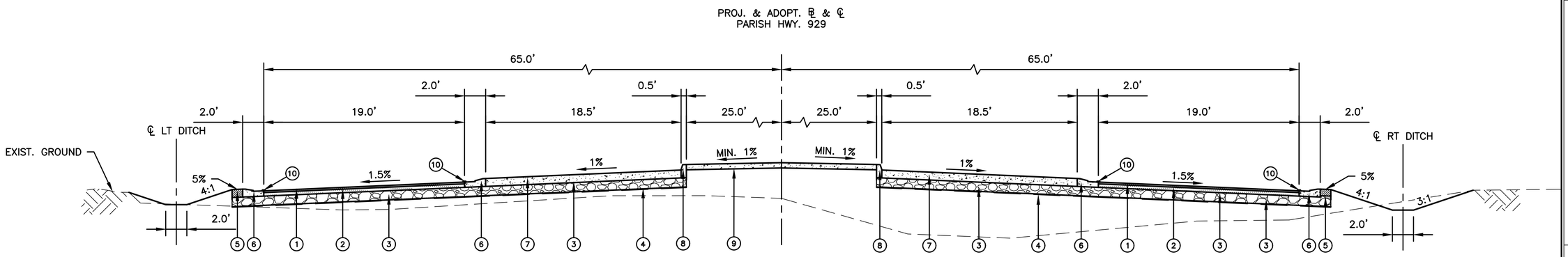
VOLKERT



TYPICAL SPLITTER ISLAND SECTION
PARISH HWY. 929

* SEE GRADING PLAN

STA. 102+56.00 TO STA. 103+35.00
STA. 104+65.00 TO STA. 105+22.00



TYPICAL ROUNDABOUT SECTION
STA. 104+00.00
STA. 204+00.00

LEGEND:

① 2" ASPHALT CONCRETE WEARING COURSE (LEVEL 2)
② 4" ASPHALT CONCRETE BINDING COURSE (LEVEL 2)
③ 10" CLASS II BASE COURSE (CRUSHED STONE OR RECYCLED P.C.C.)
④ GEOTEXTILE FABRIC (NO DIRECT PAY)
⑤ EMBANKMENT
⑥ 3" MOUNTABLE CURB AND GUTTER (SEE DETAIL 2 ON SHEET 02h)
⑦ 9" INCIDENTAL CONCRETE PAVING (BRICK RED AND BROOM FINISH)
⑧ 6" BARRIER CURB (SEE DETAIL ON CP–01)
⑨ 6" INCIDENTAL CONCRETE PAVING
⑩ PAVEMENT STRIPING AND/OR REFLECTORIZED MARKERS

NOTE:

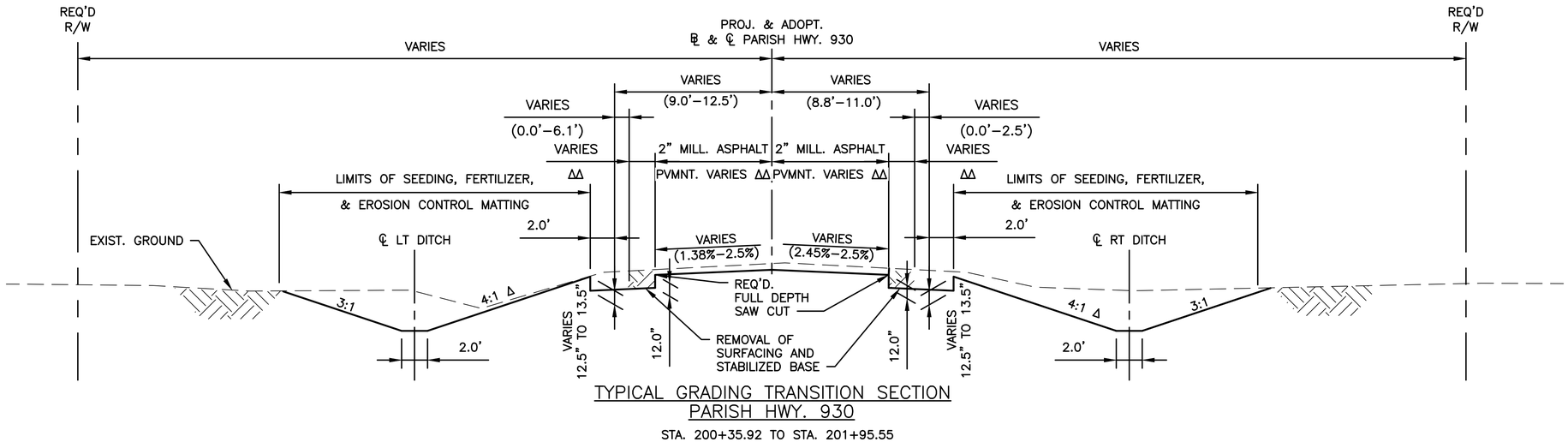
1. WHERE GUARDRAIL IS REQ'D. USE BARRIER CURB DETAIL (SEE SHEET 02h).
2. LIME TREATMENT TO BE USED ONLY AS NEEDED, AS PER REQUEST OF THE PROJECT ENGINEER ON SITE. PAID FOR UNDER ITEM NO. 304–01–00100.
3. SOIL STRIPPING SHALL BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT AND LADOTD STANDARD SPECIFICATIONS AT THE DIRECTION OF THE GEOTECHICAL ENGINEER ON SITE FOR ROAD & BRIDGES. IT SHALL BE PAID UNDER GENERAL EXCAVATION 203–01–00100 AND EMBANKMENT 203–03–00100.
4. SPLITTER ISLANDS AND TRUCK APRONS SHALL BE BRICK RED AND BROOM FINISHED.

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/18/24

SHEET NUMBER 02c
PARISH: ASCENSION
CITY: GONZALES, LA
PROJECT: MA–18–11
DESIGNED: ANB
CHECKED: AMG
DETAILED: RPO
CHECKED:
DATE: JULY 2024
SHEET: 4 OF 8
BY
REVISION DESCRIPTION
DATE
NO.

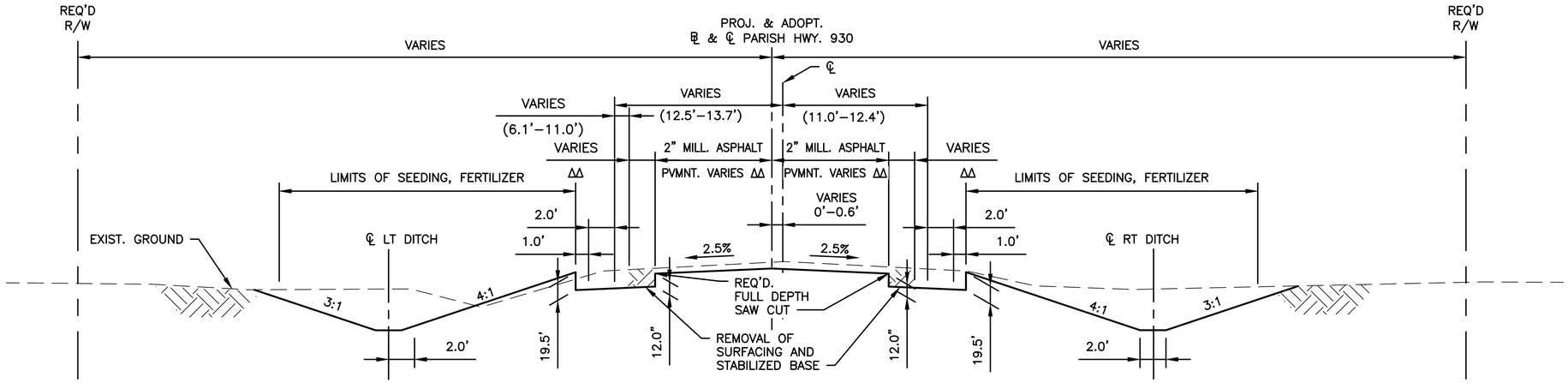
TYPICAL ROAD SECTIONS
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION
VOLKERT



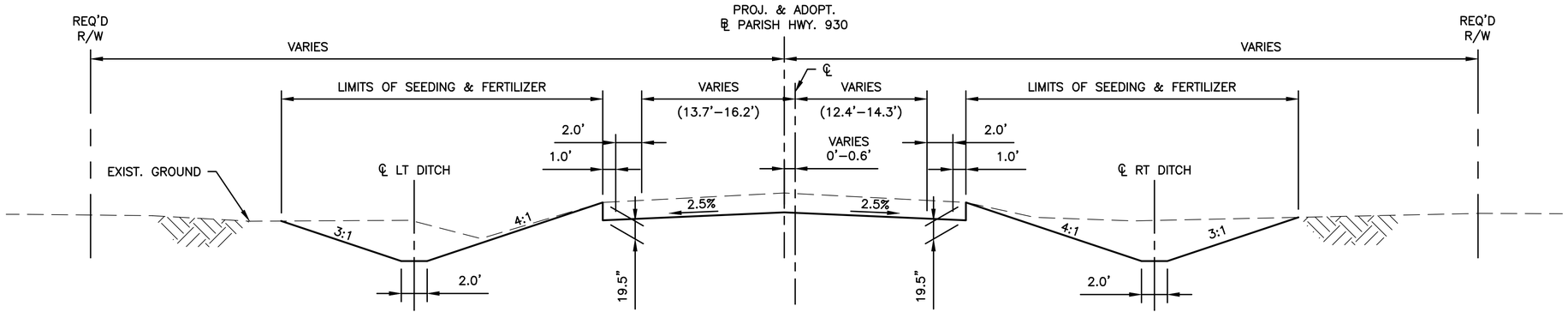
TYPICAL GRADING TRANSITION SECTION
PARISH HWY. 930

STA. 200+35.92 TO STA. 201+95.55



TYPICAL GRADING TRANSITION SECTION
PARISH HWY. 930

STA. 201+95.55 TO STA. 202+25.00



TYPICAL GRADING SECTION
PARISH HWY. 930

STA. 202+25.00 TO STA. 202+63.15

Δ DITCH SLOPE VARIES STA. 200+35.92 TO STA. 201+23.92 (EROSION CONTROL MATTING REQ'D.)

ΔΔ SEE GEOMETRIC DETAILS SHEETS FOR VARYING WIDTHS

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
10/18/24

SHEET NUMBER 02d

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA-18-11

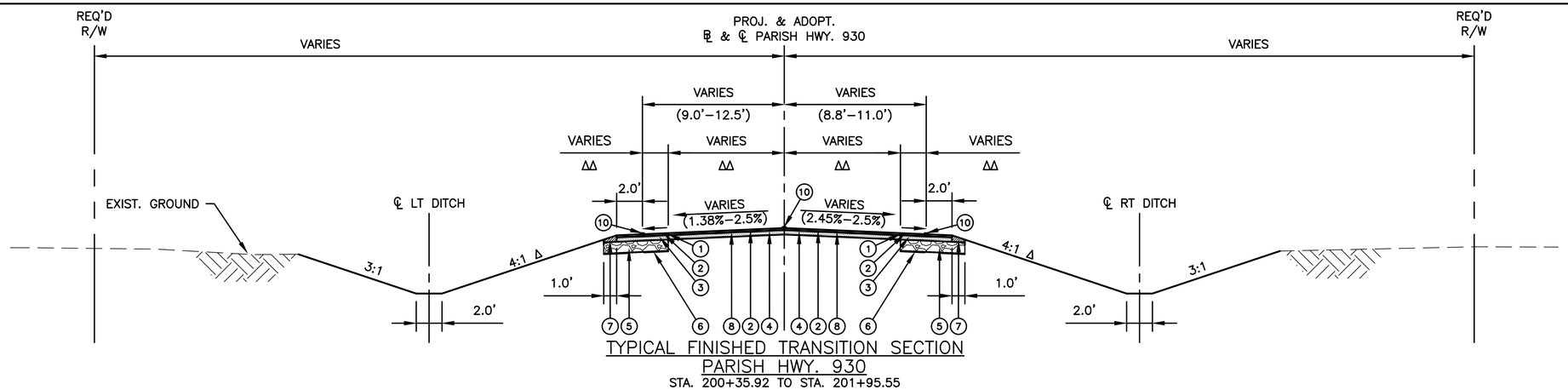
DESIGNED	CHECKED	DETAILED	CHECKED	DATE	SHEET
ANB	AMG	##	RPD	JULY 2024	5 OF 8

NO.	DATE	REVISION DESCRIPTION	BY

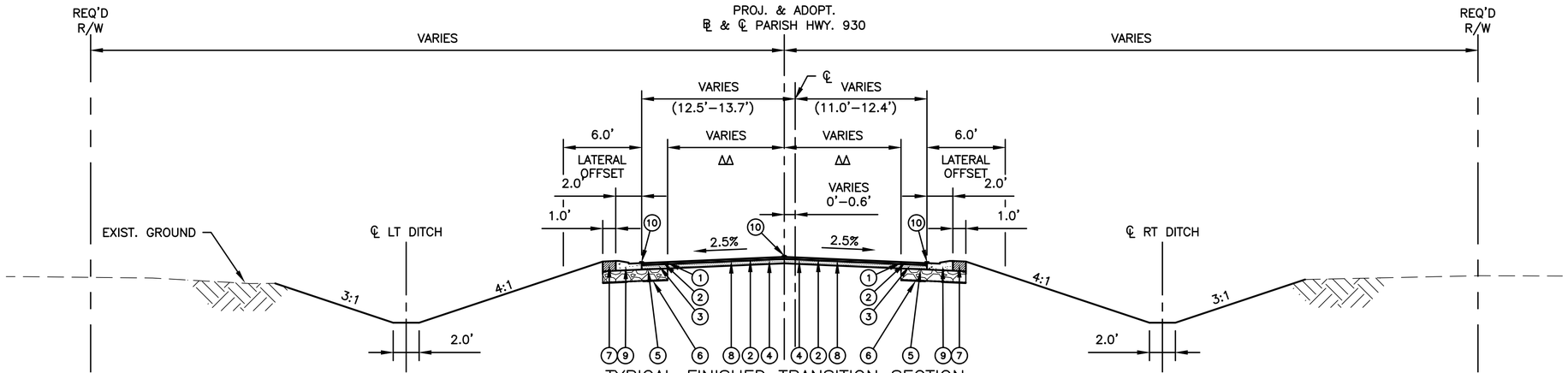
TYPICAL GRADING SECTIONS
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

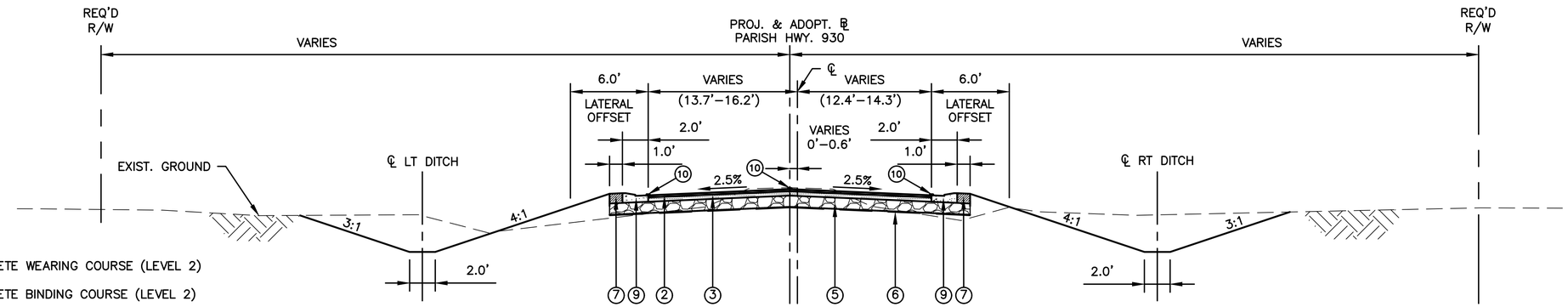
VOLKERT



TYPICAL FINISHED TRANSITION SECTION
PARISH HWY. 930
STA. 200+35.92 TO STA. 201+95.55



TYPICAL FINISHED TRANSITION SECTION
PARISH HWY. 930
STA. 201+95.55 TO STA. 202+25.00



TYPICAL FINISHED SECTION
PARISH HWY. 930
STA. 202+25.00 TO STA. 202+63.15

LEGEND:

① SAW CUTTING
② 2" ASPHALT CONCRETE WEARING COURSE (LEVEL 2)
③ 4" ASPHALT CONCRETE BINDING COURSE (LEVEL 2)
④ ASPHALT CONCRETE – (LEVELING) (THICKNESS VARIES)
⑤ 10" CLASS II BASE COURSE (CRUSHED STONE OR RECYCLED P.C.C.)
⑥ GEOTEXTILE FABRIC (NO DIRECT PAY)
⑦ EMBANKMENT
⑧ 2" MILLING ASPHALT PAVEMENT
⑨ 3" MOUNTABLE CURB & GUTTER (SEE DETAIL 2 ON SHEET 02h).
⑩ PAVEMENT STRIPING AND/OR REFLECTORIZED MARKERS

Δ DITCH SLOPE VARIES STA. 200+35.92 TO STA. 201+23.92 (EROSION CONTROL MATTING REQ'D.)

ΔΔ SEE GEOMETRIC DETAILS SHEETS FOR VARYING WIDTHS

NOTES:

1. LIME TREATMENT TO BE USED ONLY AS NEEDED, AS PER REQUEST OF THE PROJECT ENGINEER ON SITE. PAID FOR UNDER ITEM NO. 304–01–00100.
2. SOIL STRIPPING SHALL BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT AND LADOTD STANDARD SPECIFICATIONS FOR ROAD & BRIDGES. IT SHALL BE PAID UNDER GENERAL EXCAVATION 203–01–00100 AND EMBANKMENT 203–03–00100.

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
10/18/24

SHEET NUMBER 02e

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA–18–11

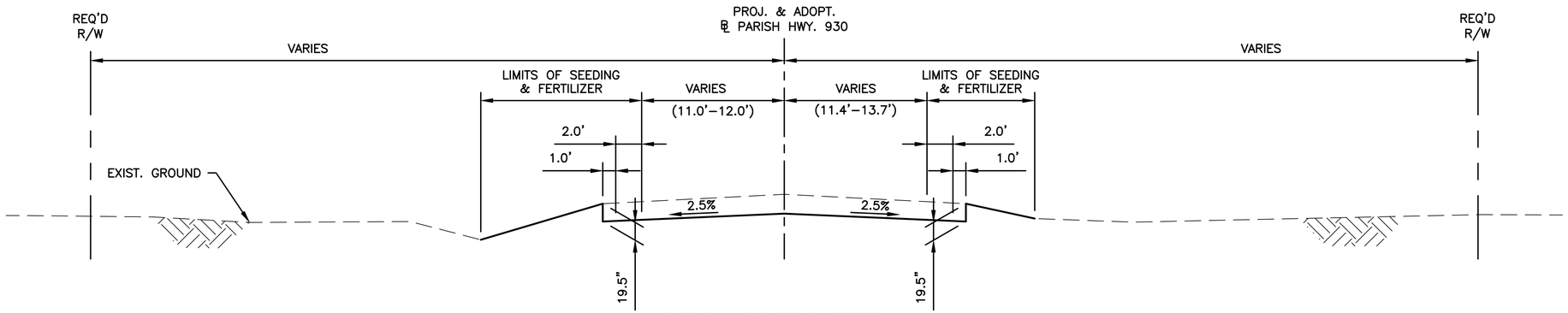
DESIGNED	CHECKED	DETAILED	CHECKED	DATE	SHEET
ANB	AMG	##	RPG	JULY 2024	6 OF 8

NO.	DATE	REVISION DESCRIPTION	BY

TYPICAL ROAD SECTIONS
HWY. 929 & HWY. 930 ROUNDABOUT

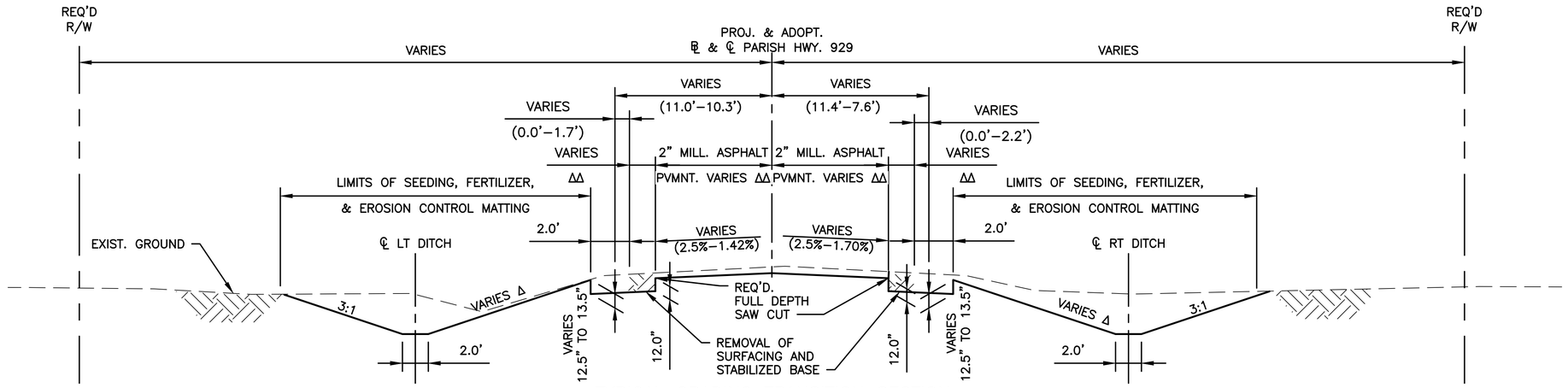
MOVE ASCENSION

VOLKERT



TYPICAL GRADING SECTION
PARISH HWY. 930

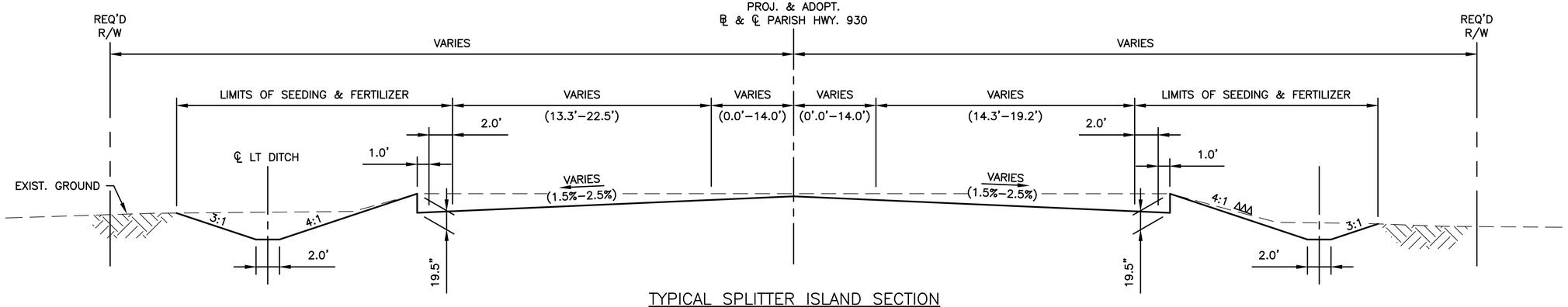
STA. 205+52.00 TO STA. 205+97.69



TYPICAL GRADING TRANSITION SECTION
PARISH HWY. 930

STA. 205+97.69 TO STA. 207+65.41

Δ DITCH REQ'D STA. 206+85.78 TO 207+65.41
(EROSION CONTROL MATTING REQ'D.)



TYPICAL SPLITTER ISLAND SECTION
PARISH HWY. 930

STA. 202+63.15 TO STA. 203+35.00
STA. 204+65.00 TO STA. 205+52.00

Δ DITCH REQ'D STA. 206+85.78 TO 207+65.41
(EROSION CONTROL MATTING REQ'D.)

ΔΔ SEE GEOMETRIC DETAILS SHEETS FOR VARYING WIDTHS

ΔΔΔ DITCH REQ'D. STA. 204+65.00 TO STA. 205+19.00

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
CIVIL ENGINEERING

10/18/24

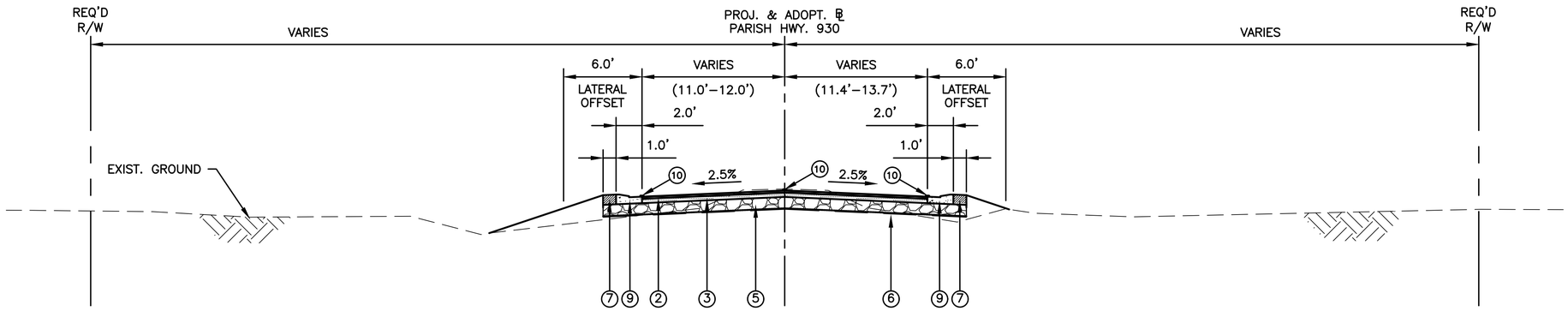
SHEET NUMBER	02f
PARISH	ASCENSION
CITY	GONZALES, LA
PROJECT	MA-18-11
DESIGNED	ANB
CHECKED	AMG
DETAILED	RPD
CHECKED	
DATE	JULY 2024
SHEET	5 OF 8

REVISION DESCRIPTION | DATE | NO. | BY

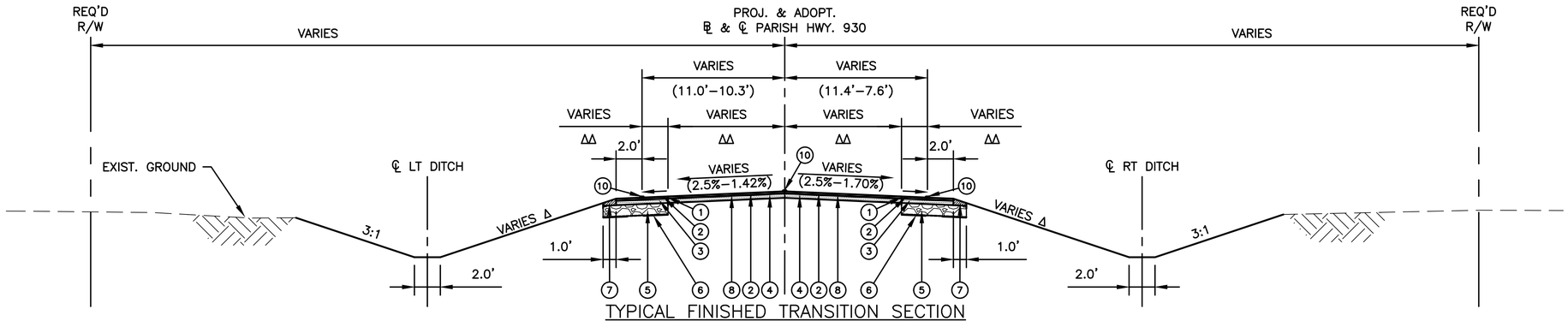
TYPICAL GRADING SECTIONS
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

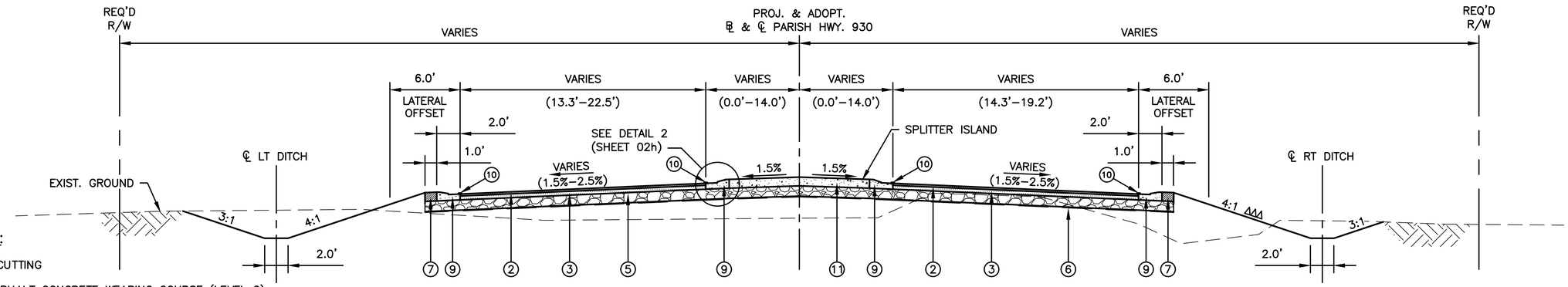
VOLKERT



TYPICAL FINISHED SECTION
PARISH HWY. 930
STA. 205+52.00 TO STA. 205+97.69



TYPICAL FINISHED TRANSITION SECTION
PARISH HWY. 930
STA. 205+97.69 TO STA. 207+65.41



TYPICAL SPLITTER ISLAND SECTION
PARISH HWY. 930
STA. 202+63.15 TO STA. 203+35.00
STA. 204+65.00 TO STA. 205+52.00

LEGEND:

1. SAW CUTTING
2. 2" ASPHALT CONCRETE WEARING COURSE (LEVEL 2)
3. 4" ASPHALT CONCRETE BINDING COURSE (LEVEL 2)
4. ASPHALT CONCRETE – (LEVELING) (THICKNESS VARIES)
5. 10" CLASS II BASE COURSE (CRUSHED STONE OR RECYCLED P.C.C.)
6. GEOTEXTILE FABRIC (NO DIRECT PAY)
7. EMBANKMENT
8. 2" MILLING ASPHALT PAVEMENT
9. 3" MOUNTABLE CURB & GUTTER (SEE DETAIL 2 ON SHEET 02h)
10. PAVEMENT STRIPING AND/OR REFLECTORIZED MARKERS
11. 9" INCIDENTAL CONCRETE PAVING (BRICK RED AND BROOM FINISH)

Δ DITCH REQ'D STA. 206+85.78 TO 207+65.41 (EROSION CONTROL MATTING REQ'D.)

ΔΔ SEE GEOMETRIC DETAILS SHEETS FOR VARYING WIDTHS

ΔΔΔ DITCH REQ'D. STA. 204+65.00 TO STA, 205+19.00

NOTES:

1. LIME TREATMENT TO BE USED ONLY AS NEEDED, AS PER REQUEST OF THE PROJECT ENGINEER ON SITE. PAID FOR UNDER ITEM NO. 304–01–00100.
2. SOIL STRIPPING SHALL BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT AND LADOTD STANDARD SPECIFICATIONS FOR ROAD & BRIDGES. IT SHALL BE PAID UNDER GENERAL EXCAVATION 203–01–00100 AND EMBANKMENT 203–03–00100.
3. SPLITTER ISLANDS AND TRUCK APRONS SHALL BE BRICK RED AND BROOM FINISHED.

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
10/18/24

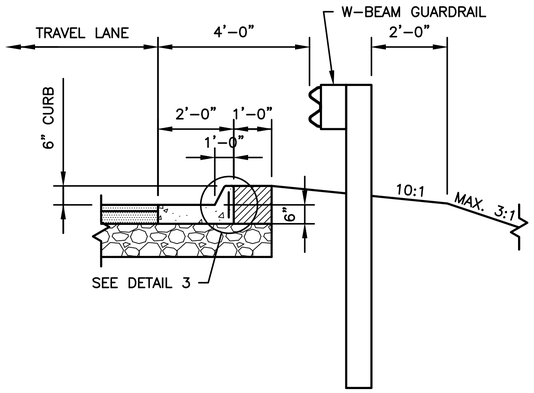
SHEET NUMBER	02g
PARISH	ASCENSION
CITY	GONZALES, LA
PROJECT	MA–18–11
DESIGNED	ANB
CHECKED	AMG
DETAILED	##
CHECKED	RPD
DATE	JULY 2024
SHEET	6 OF 8

REVISION DESCRIPTION | BY | DATE | NO.

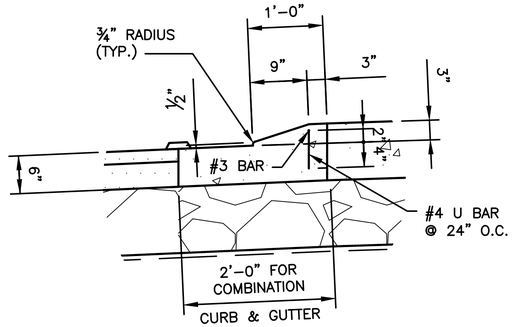
TYPICAL ROAD SECTIONS
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

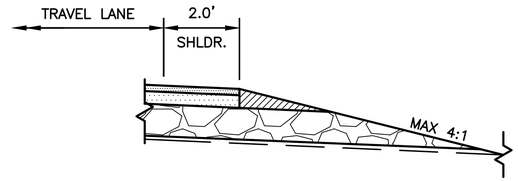
VOLKERT



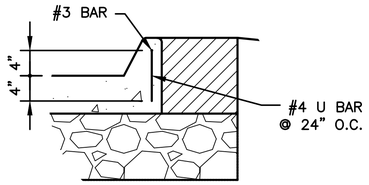
DETAIL 1
BARRIER CURB & GUTTER
DETAIL WITH GUARDRAIL
(REQ'D. WHERE GUARDRAIL IS USED)
STA. 104+33.80 TO STA. 106+16.00
(SEE NOTE 1)



DETAIL 2
3" MOUNTABLE CURB
& GUTTER DETAIL
(APRON & SPLITTER ISLANDS)
(SEE NOTE 1)



DAYLIGHTING BASE COURSE
(AT EACH INTERFACE OF EXISTING
PROPOSED ROAD SECTION)



DETAIL 3

NOTE:

1. SEE LADOTD STANDARD DETAIL CP–01 FOR FURTHER DETAILS.

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
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PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/18/24

SHEET NUMBER	02h
PARISH	ASCENSION
CITY	GONZALES, LA
PROJECT	MA–18–11
DESIGNED	ANB
CHECKED	AMG
DETAILED	##
CHECKED	RPO
DATE	JULY 2024
SHEET	1 OF 1

NO.	DATE	REVISION DESCRIPTION	BY

TYPICAL ROAD DETAILS

HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT

EARTHWORK

DESCRIPTION	GENERAL EXCAVATION	EMBANKMENT
	CU. YD.	CU. YD.
HWY. 929	1515	991
HWY. 930	1864	757
ROUNDABOUT	168	770
	3547	2518

MILLING ASPHALT PAVEMENT

STATION	STATION	DESCRIPTION	LENGTH	WIDTH	AREA
			FEET	FEET	SQ. YD.
100+69.35	101+99.56	ROADWAY	130	18	261
107+77.92	108+38.00	ROADWAY	60	18	120
200+35.92	202+25.00	ROADWAY	189	16	335
205+97.69	207+65.41	ROADWAY	168	17	317
TOTAL					1033

REMOVAL ASPHALT PAVEMENT

STATION	STATION	DESCRIPTION	LENGTH	WIDTH	REMOVAL ASPHALT PAVEMENT
			FEET	FEET	SQ. YD.
100+69.35	108+38.08	EXIST. ASPHALT RDWY	769	20	1316
200+35.93	204+13.67	EXIST. ASPHALT RDWY	378	20	462
204+34.33	207+65.41	EXIST. ASPHALT RDWY	331	20	376
TOTAL					2155

TEMPORARY DIVERSION ROADS

STATION	STATION	DESCRIPTION	LENGTH	WIDTH	AREA
			FEET	FEET	SQ. YD.
201+09.28	204+04.26	PHASE 1A – 930 DIVERSION ROAD	274	22	620
204+04.26	205+66.93	PHASE 1B – 930 DIVERSION ROAD	122	22	328
TOTAL					947

BASE COURSES, ASPHALT PAVEMENT AND CONCRETE

STATIONING	DESCRIPTION	LENGTH	WIDTH	CLASS II BASE COURSE	ASPHALT CONCRETE	ASPHALT CONCRETE	ASPHALT CONCRETE	INCIDENTAL CONCRETE
				10" STONE OR RECYCLED PCC	2" WEARING COURSE	4" BINDER COURSE	±4.5" LEVELLING COURSE	COLORED
		FEET	FEET	SQ. YD.	SQ. YD.	SQ. YD.	SQ. YD.	SQ. YD.
102+82.73 TO 103+31.99	SPLITTER ISLAND 1	49	13	88				59
104+67.76 to 104+98.40	SPLITTER ISLAND 2	31	10	50				30
202+87.19 to 203+32.27	SPLITTER ISLAND 3	45	13	80				53
204+68.52 to 205+16.94	SPLITTER ISLAND 4	49	12	81				53
100+69.35 to 103+53.04	NEW ASPHALT PVMNT.			722	588	588		
100+69.35 to 101+99.56	OVERLAY						261	
104+56.73 to 108+38.08	NEW ASPHALT PVMNT.			1278	1041	1041		
107+77.92 TO 108+38.00	OVERLAY						120	
200+35.93 to 203+60.35	NEW ASPHALT PVMNT.			787	644	644		
200+35.93 to 202+25.00	OVERLAY						335	
204+49.98 to 207+65.41	NEW ASPHALT PVMNT.			784	632	632		
205+97.69 TO 207+65.41	OVERLAY						317	
ROUNDABOUT	NEW ASPHALT PVMNT.			736	736	736		
ROUNDABOUT	APRON			520				449
TOTAL				5126	3641	3641	1033	644

TEMPORARY PAVEMENT MARKINGS

STATION	STATION	DESCRIPTION	TEMP. PVMNT. MARKINGS (4" WIDTH)
			LINEAR FOOT
100+69.33	103+33.75	PHASE 1A	265
100+69.34	103+33.76	PHASE 1B	534
201+09.28	205+66.93	930 DIVERSION ROAD	2010
TOTAL			2809

PAVEMENT MARKINGS

STATION	STATION	DESCRIPTION	PLASTIC PAVEMENT STRIPE (SOLID LINE) (4" W) (THERMO 90 MIL)	PLASTIC PAVEMENT STRIPE (SOLID LINE) (8" W) (THERMO 90 MIL)	PLASTIC PAVEMENT STRIPE (SOLID LINE) (12" W) (THERMO 90 MIL)	PLASTIC PAVEMENT STRIPE (DOTTED LINE) (24" W) (2' L) (THERMO 90 MIL)
			MILE	MILE	LNFT	MILE
100+69.35	108+38.08	HWY. 929	0.486		103.0	0.014
200+35.93	207+65.41	HWY. 930	0.456		64.5	0.016
–	–	ROUNDABOUT	0.040	0.080	31.0	
TOTAL			0.981	0.080	198.5	0.030

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
CIVIL ENGINEER
10/18/24

SHEET NUMBER 03

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA-18-11

DESIGNED	CHECKED	DETAILED	CHECKED	DATE	SHEET
ANB	AMG	PML	RPO	JULY 2024	1 OF 3

NO.	DATE	REVISION DESCRIPTION	BY

SUMMARY TABLES

HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT

DRIVEWAYS

STATION	202-02-02020 REMOVAL OF ASPHALT (SQYD)	202-02-06100 REMOVAL OF CONCRETE WALKS & DRIVES (SQYD)	401-01-00100 AGGREGATE SURFACE COURSE (CUYD)	502-01-00200 ASPHALT CONCRETE DRIVES (TON)	706-02-00100 CONCRETE WALK, DRIVES, AND MISCELLANEOUS (SQYD)
101+41		27			24
101+90			3		
108+06		30			28
201+82			2	4	
202+49			3		
205+71			3		
206+48	84			28	
206+49		34			22
TOTAL	84	91	11	32	74

SAW CUTTING

STATION	STATION	SIDE OF C/L	DESCRIPTION	LENGTH	AVG. DEPTH	SW CUTTING ASPHALT CONCRETE PAVEMENT
				LINEAR FOOT	INCH	INCH FEET
100+69.35	101+99.56	RIGHT	EXISTING LA 929	147	4.5	661
100+69.35	101+99.56	LEFT	EXISTING LA 929	150	4.5	673
107+77.92	108+38.00	RIGHT	EXISTING LA 929	79	4.5	356
107+77.92	108+38.00	LEFT	EXISTING LA 929	77	4.5	347
200+35.92	202+25.00	RIGHT	EXISTING LA 930	211	4.5	952
200+35.92	202+25.00	LEFT	EXISTING LA 930	198	4.5	890
205+97.69	207+65.41	RIGHT	EXISTING LA 930	183	4.5	825
205+97.69	207+65.41	LEFT	EXISTING LA 930	186	4.5	836
TOTAL						5540

CONCRETE CURB AND GUTTER

STATION	STATION	SIDE OF C/L	DESCRIPTION	COMBINATION CURB & GUTTER	CONCRETE CURB (BARRIER)
				LINEAR FOOT	LINEAR FOOT
101+99.55	103+41.46	LEFT	EOP	145	
101+99.55	103+53.04	RIGHT	EOP	143	
104+45.27	107+78.00	RIGHT	EOP	324	
104+56.73	107+78.00	LEFT	EOP	312	
201+94.91	203+60.35	LEFT	EOP	174	
201+95.55	203+49.32	RIGHT	EOP	145	
204+49.98	205+98.00	RIGHT	EOP	145	
204+66.26	205+97.47	LEFT	EOP	132	
102+80.74	103+33.99	LEFT	SPLITTER ISLAND 1	64	
102+80.74	103+33.99	RIGHT	SPLITTER ISLAND 1	63	
104+65.76	105+00.48	LEFT	SPLITTER ISLAND 2	44	
104+65.76	105+00.48	RIGHT	SPLITTER ISLAND 2	42	
202+85.42	203+34.27	LEFT	SPLITTER ISLAND 3	59	
202+85.42	203+34.27	RIGHT	SPLITTER ISLAND 3	59	
204+66.52	205+18.98	LEFT	SPLITTER ISLAND 4	64	
204+66.52	205+18.98	RIGHT	SPLITTER ISLAND 4	60	
–	–		APRON	289	
–	–		APRON		160
TOTAL				2265	160

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
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PROFESSIONAL ENGINEER
CIVIL ENGINEERING

10/18/24

SHEET NUMBER 03a

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA-18-11

DESIGNED	CHECKED	DETAILED	CHECKED	DATE	SHEET
ANB	AMG	PML	RPO	JULY 2024	2 OF 3

NO.	DATE	REVISION DESCRIPTION	BY

SUMMARY TABLES

HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT

SUMMARY OF ESTIMATED QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	AS-BUILT
201-01-00200	CLEARING & GRUBBING	LUMP SUM	1	
202-02-02000	REMOVAL OF ASPHALT DRIVES	SQ. YD.	84	
202-02-02020	REMOVAL OF ASPHALT PAVEMENT	SQ. YD.	2155	
202-02-06060	REMOVAL OF CONCRETE CATCH BASIN	EACH	1	
202-02-06100	REMOVAL OF CONCRETE WALKS AND DRIVES	SQ. YD.	91	
202-02-12000	REMOVAL OF FENCE	LN. FT.	78	
202-02-32100	REMOVAL OF PIPE (CROSS DRAIN)	LN. FT.	220	
202-02-32120	REMOVAL OF PIPE (SIDE DRAIN)	LN. FT.	265	
202-02-32120	REMOVAL OF PIPE (STORM DRAIN)	LN. FT.	156	
202-02-38240	REMOVAL OF SIGNS AND SUPPORTS	EACH	14	
202-03-00010	RELOCATION OF MAILBOX	EACH	3	
203-06-00100	EXCAVATION AND EMBANKMENT	LUMP SUM	1	
204-05-00100	TEMPORARY SEDIMENT CHECK DAMS (HAY)	EACH	12	
204-05-00200	TEMPORARY SEDIMENT CHECK DAMS (STONE)	EACH	12	
204-06-00100	TEMPORARY SILT FENCE	LN. FT.	2616	
301-05-00100	BASE DRAIN OUTLET	EACH	8	
302-02-10075	CLASS II BASE COURSE (10" THICK) (CRUSHED STONE OR RECYCLED PCC)	SQ. YD.	5126	
304-01-00100	LIME	TON	17	
304-05-00100	LIME TREATMENT (TYPE E)	SQ. YD.	1794	
401-01-00100	AGGREGATE SURFACE COURSE (ADJUSTED VEHICULAR MEASUREMENT)	CU. YD	11	
402-02-00100	MAINLINE TRAFFIC MAINTENANCE SURFACING (HARD)	SQ. YD.	125	
502-01-00100	ASPHALT CONCRETE	TON	1202	
502-01-00200	ASPHALT CONCRETE, DRIVES, TURNOUTS AND MISCELLANEOUS	TON	32	
509-01-00100	MILLING ASPHALT PAVEMENT	SQ. YD.	1033	
701-02-01020	CROSS DRAIN PIPE ARCH (30" EQUIV. RCPA/CMPA)	LN. FT.	562	
701-03-01002	STORM DRAIN PIPE (15" RCP/RPVCP)	LN. FT.	58	
701-03-01022	STORM DRAIN PIPE (18" RCP/RPVCP)	LN. FT.	98	
701-05-01040	SIDE DRAIN PIPE (18" RCP/PP/CMP)	LN. FT.	310	
701-05-01060	SIDE DRAIN PIPE (24" RCP/PP/CMP)	LN. FT.	78	
701-06-01060	SIDE DRAIN PIPE ARCH 30" (RCPA)	LN. FT.	24	
702-03-00100	CATCH BASINS (CB-01)	EACH	3	
702-07-00100	CROSS DRAIN SAFETY END (TYPE 1)	EACH	6	
702-08-00100	SIDE DRAIN SAFETY END (TYPE 1)	EACH	9	
704-03-00200	BLOCKED OUT GUARDRAIL -31" (6'-3" POST SPACING)	LN. FT.	145.5	
704-05-00300	GUARDRAIL ANCHOR SECTION 31" (TRAILING END)	LN. FT.	9.9	
704-10-00205	GUARDRAIL END TREATMENT, MASH, (TANGENT)	EACH	1	
706-02-00200	CONCRETE DRIVE (6" THICK)	SQ. YD.	74	
706-03-00300	INCIDENTAL CONCRETE PAVING (6")	SQ. YD.	218	

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	AS-BUILT
706-03-10000	INCIDENTAL CONCRETE PAVING (RED) (9 INCHES)	SQ. YD.	644	
707-01-00200	CONCRETE CURB (BARRIER)	LN. FT.	160	
707-03-00100	COMBINATION CONCRETE CURB AND GUTTER	LN. FT.	2265	
708-01-00100	RIGHT OF WAY MONUMENT	EACH	15	
713-01-00100	TEMPORARY SIGNS AND BARRICADES	LUMP SUM	1	
713-02-00100	TEMPORARY PAVEMENT MARKINGS (4" WIDTH)	LN. FT.	2809	
713-11-00100	PORTABLE CHANGEABLE MESSAGE SIGNS	EACH	8	
717-01-00100	SEEDING	LB	36	
718-01-00100	FERTILIZER	LB	1205	
720-01-02000	EROSION CONTROL SYSTEM (SLOPE PROTECTION) (TYPE B)	SQ. YD.	3636	
725-01-00100	TEMPORARY DETOUR ROAD	SQ. YD.	947	
726-01-00100	BEDDING MATERIAL	CU. YD.	131	
727-01-00100	MOBILIZATION	LUMP SUM	1	
729-01-00102	SIGN (TYPE A) (FURNISH AND INSTALL)	SQ. FT.	267.43	
729-22-00100	SQUARE TUBING POST WITH 2-1/4" ANCHOR	EACH	77	
732-01-01060	PLASTIC PAVEMENT STRIPE (12" W) (THERMOPLASTIC 90 MIL)	LNFT	198.5	
732-02-02000	PLASTIC PAVEMENT STRIPE (SOLID LINE) (4" W) (THERMO 90 MIL)	MILE	0.981	
732-02-02040	PLASTIC PAVEMENT STRIPE (SOLID LINE) (8" W) (THERMO 90 MIL)	MILE	0.080	
732-03-02060	PLASTIC PAVEMENT STRIPE (DOTTED LINE) (24" W) (2' L) (THERMO 90 MIL)	MILE	0.030	
735-01-00100	MAILBOXES	EACH	3	
735-02-00100	MAILBOX SUPPORTS (SINGLE)	EACH	3	
740-01-00100	CONSTRUCTION LAYOUT	LUMP SUM	1	
822-02-00500	CONDUIT W/ CONDUCTORS (PVC/HDPE) (2")	LN. FT.	1900	
822-02-02500	CONDUIT W/ CONDUCTORS (RIGID GALVANIZED STEEL) (2")	LN. FT.	50	
822-05-00700	LIGHT POLE (30') (ALUMINUM) (SINGLE ARM)	EACH	12	
822-07-02800	LUMINAIRE	EACH	12	
822-08-00200	ELECTRICAL SERVICE POINT (STRUCTURE)	EACH	1	
NS-500-00340	SAWCUTTING OF ASPHALT (6" AVG. DEPTH)	IN. LF.	5540	
NS-702-00101	PAVED GUTTER DRAIN (PG-01)	EACH	16	

* ALL QUANTITIES ARE ESTIMATED

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
10/18/24

SHEET NUMBER 03b

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA-18-11

DESIGNED	DETAILED	DATE
ANB	PWL	JULY 2024
CHECKED	CHECKED	SHEET
AMG	RPO	3 OF 3

NO.	DATE	REVISION DESCRIPTION	BY

SUMMARY OF ESTIMATED QUANTITIES
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT

LEGEND: (EXISTING TOPOGRAPHY)

- POWER DROP
- POWER POLE COMBINATION
- POWER POLE
- GUY POLE
- POWER POLE DEADMAN
- POWER JUNCTION BOX
- POWER VAULT
- TRANSFORMER
- TELEPHONE CROSS CONNECT BOX
- TELEPHONE PEDESTAL
- FIRE HYDRANT
- WATER VALVE
- WATER METER
- WATER TEST HOLE
- SEWER BLOWOUT VALVE
- SEWER CLEAN OUT
- TOPO CONTROL POINT
- MAIL BOX
- TRAFFIC SIGN
- POST
- TREE
- ROW MONUMENT

- ROAD LINE
- RIGHT OF WAY
- DITCH LINE
- TOP OF DITCH LINE
- DITCH CULVERT
- GAS LINE (G)
- OVERHEAD ELECTRICAL (OHE)
- UNDER GROUND ELECTRICAL (UGE)
- POWER LINE (P)
- TELEPHONE LINE (T)
- TELEPHONE LINE (TFO)
- TELEVISION LINE (TV)
- WATER LINE (W)
- SEWER LINE (S)
- FENCE LINE (X)
- TREE LINE

LEGEND: (PROPOSED CONSTRUCTION)

- DITCH
- LIMITS OF CONSTRUCTION
- RIGHT OF WAY (R/W)
- TEMPORARY SILT FENCING (SF)
- REQ'D. SIDE DRAIN PIPE
- REQ'D. CONCRETE
- REQ'D. ASPHALT
- REQ'D. AGGREGATE SURFACE COURSE/GRAVEL DR.
- REQ'D. MILL AND OVERLAY
- REMOVAL OF PAVEMENT

Scale : 1" = 20'

BEGIN PARISH PROJECT
ASCENSION PARISH
HWY. 929
STA.: 100+64.03
N: 654264.45
E: 3399709.69

STA. 100+69.35
BEGIN ROADWAY CONSTRUCTION

APRIL S. MARCHAND
CHESTER L. THOMAS, JR.
MELISSA R. THOMPSON
FRANK (NMN) EARL III

EXIST. CONC. DRIVE
EXIST. R/W
EXIST. DITCH
EXIST. MAILBOX (TO BE RELOCATED NEXT TO DRIVEWAY)
EXIST. DIRT DRIVE
EXIST. GRAVEL DRIVE
EXIST. SIGN (TO BE REMOVED)
EXIST. 36" CMP (TO BE REMOVED)
EXIST. 15" CMP (TO BE REMOVED)
EXIST. CB-01 (TO BE REMOVED)
EXIST. 24" CMP (TO BE REMOVED)
EXIST. TREE (TO BE REMOVED)

PROJ. & ADOPT. ℄ PARISH HWY. 929
PROJ. & ADOPT. 930 ℄ PARISH HWY.

MATCHLINE STA. 205+50 SEE SHEET 08
MATCHLINE STA. 105+00 SEE SHEET 07
MATCHLINE STA. 202+25 SEE SHEET 08

100+00
101+00
102+00
103+00
104+00
105+00
203+00
204+00
205+00

PRC: 102+61
PRC: 103+35
PRC: 204+65
PCC: 103+35
PCC: 104+65
PCC: 203+35
PI: 204+00

101 — STA. 101+41
REQ'D. 22'–18" SDP (REMOVE EXIST. 18")

STA. 101+41
REQ'D. 12' CONC. DRIVE

REQ'D. TIE TO EXIST. DITCH

116 — STA. 102+36
REQ'D PG DRAIN–01

REQ'D 2–SIDE DRAIN SAFETY END (TYPE 1)

REQ'D. R/W

DETAIL 1 (TYP.)

REQ'D. 3" MOUNTABLE C&G

EXIST. SIGN (TO BE REMOVED)

℄ REQ'D. LT. DITCH

REQ'D. RAISED SPLITTER ISLAND

131 — STA. 205+43
REQ'D. PG DRAIN

109 — STA. 205+43
REQ'D. CB–01

EXIST. SIGNS (TO BE REMOVED)

L.O.C.

108 — STA. 205+33
REQ'D. 26'–24" SDP
REQ'D. 3" MOUNTABLE C&G

℄ REQ'D. RT. DITCH

REQ'D. RAISED SPLITTER ISLAND

132 — STA. 205+43
REQ'D. PG DRAIN

107 — STA. 205+15
REQ'D. 74'–30" RCPA @ 0.10%

118 — STA. 103+23
REQ'D. PG DRAIN

130 — STA. 204+85
REQ'D. PG DRAIN

129 — STA. 204+74
REQ'D. PG DRAIN

120 — STA. 104+82
REQ'D. PG DRAIN

REQ'D. RAISED SPLITTER ISLAND

REQ'D. 3" MOUNTABLE C&G

STA. 104+00 = STA. 204+00

119 — STA. 104+76
REQ'D. PG DRAIN

REQ'D. 206' – 6" BARRIER C&G

L.O.C.

℄ REQ'D. RT. DITCH

REQ'D. R/W

STA. 104+33.80
BEGIN REQ'D. GUARDRAIL RAIL (TANGENT END TREATMENT)

REQ'D. 3" MOUNTABLE C&G

127 — STA. 203+19
REQ'D. PG DRAIN

105 — STA. 202+49
REQ'D. 26'–18" SDP (REMOVE EXIST 18")

STA. 202+49
REQ'D. 8' AGGREGATE DR.

REQ'D. SAWCUT EXIST ASPHALT

REQ'D. TIE TO EXIST. DITCH

EXIST. SIGN (TO BE REMOVED)

℄ REQ'D. RT. DITCH

REQ'D. R/W

102 — STA. 101+90
REQ'D. 24'–30" SDPA (REMOVE EXIST. 24")

L.O.C.

115 — STA. 102+36
REQ'D PG DRAIN–01

STA. 101+84
REQ'D 8'–4" AGGREGATE DR.

117 — STA. 103+22
REQ'D. PG–DRAIN

REQ'D. 3" MOUNTABLE C&G

REQ'D. 7.5" CONCRETE APRON

REQ'D. 6" CONCRETE ISLAND

REQ'D. 6" BARRIER CURB

EXIST. SIGN (TO BE REMOVED)

128 — STA. 203+28
REQ'D. PG–DRAIN

REQ'D 3" MOUNTABLE C&G

REQ'D. RAISED SPLITTER ISLAND

106 — STA. 202+86
REQ'D. (2) 78'–30" RCPA @ 0.10%

REQ'D. 3" MOUNTABLE C&G

REQ'D. LT. DITCH

REQ'D. R/W

+21.57 / 44
+07.48 / 21
+99.34 / 44
+06.89 / 57
+99.91 / 23
+88.79 / 33
+65.44 / 48
+78.59 / 49
+25.00 / 48
+91.75 / 60
+69.11 / 53
+64.39 / 53

BEGIN MOUNTABLE TRANSITION
4' CURB TRANSITION
1'
A
A

DETAIL 1

BEGIN MOUNTABLE TRANSITION
4' CURB TRANSITION
3"

SECTION A–A

NOTES:

1. UTILITIES TO BE RELOCATED BY OTHERS (SEE SHEETS 9–10).
2. SEE STANDARD PLANS DW01 FOR DRIVEWAY DETAILS.
3. FOR THE REQ'D. PG DRAIN SEE STANDARD DETAIL PG–DRAIN 01.
4. AGGREGATE DR. SHALL BE AGGREGATE SURFACE COURSE.
5. ALL SPLITTER ISLANDS AND APRONS SHALL BE COLORED BRICK RED & BROOM FINISHED.
6. FOR SIDE DRAIN SAFETY ENDS (TYPE 1) SEE STANDARD PLANS NO. SETSD1

STATE OF LOUISIANA
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10/18/24

SHEET NUMBER 04

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA–18–11

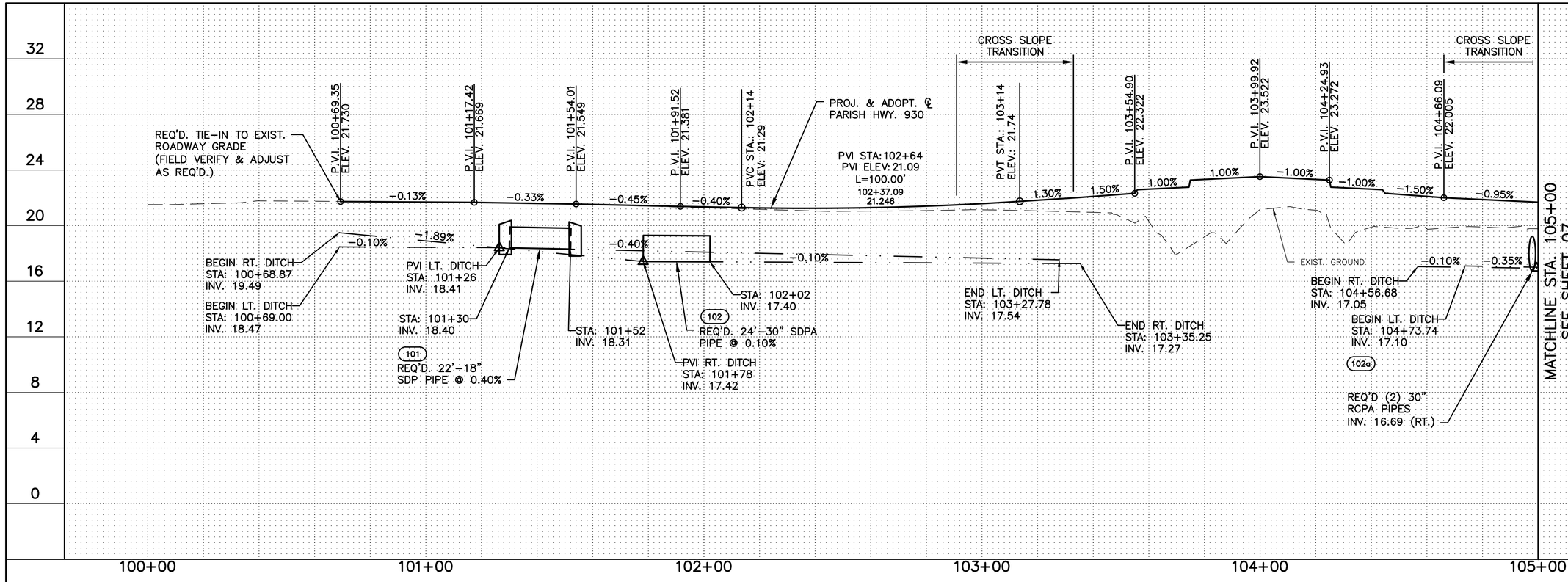
DESIGNED	CHECKED	DETAILED	CHECKED	DATE	SHEET
ANB	AMG	##	RPO	JULY 2024	1 OF 4

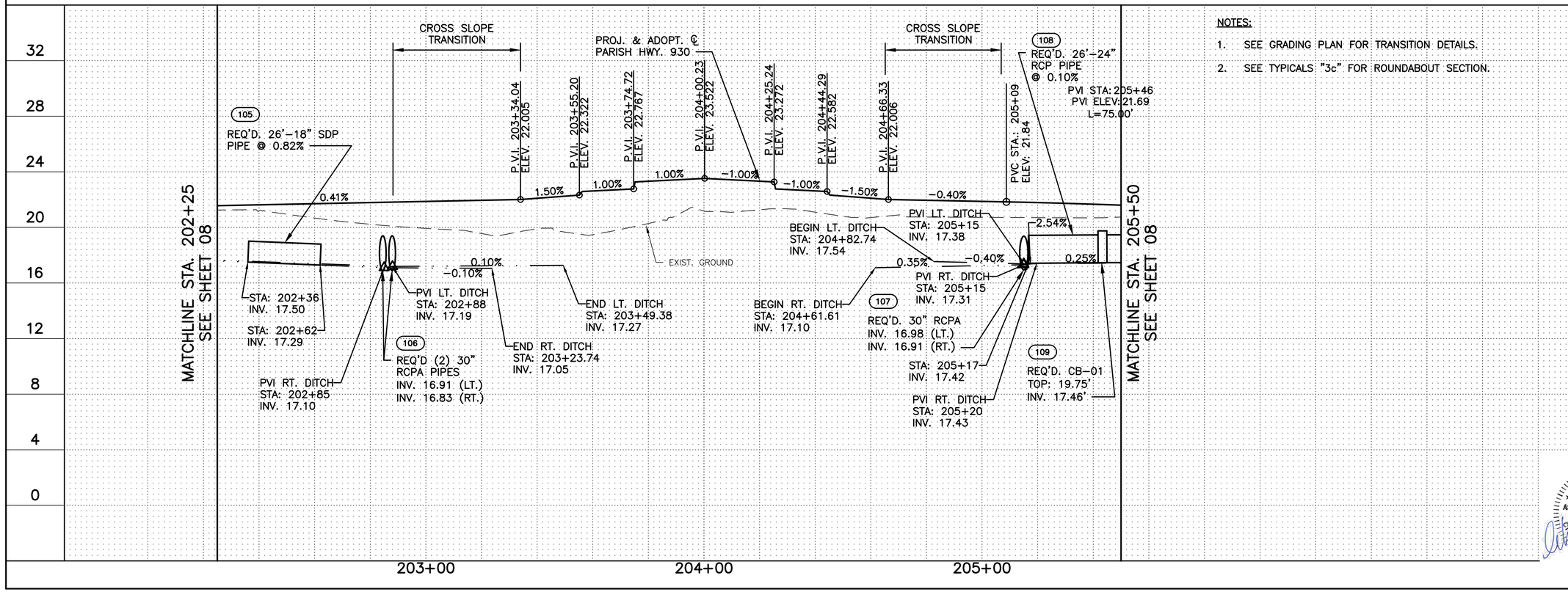
REVISION DESCRIPTION | BY | NO. | DATE

PLAN & PROFILE
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT





NOTES:

1. SEE GRADING PLAN FOR TRANSITION DETAILS.
2. SEE TYPICALS "3c" FOR ROUNDABOUT SECTION.

STATE OF LOUISIANA
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10/18/24

SHEET NUMBER 05

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA-18-11

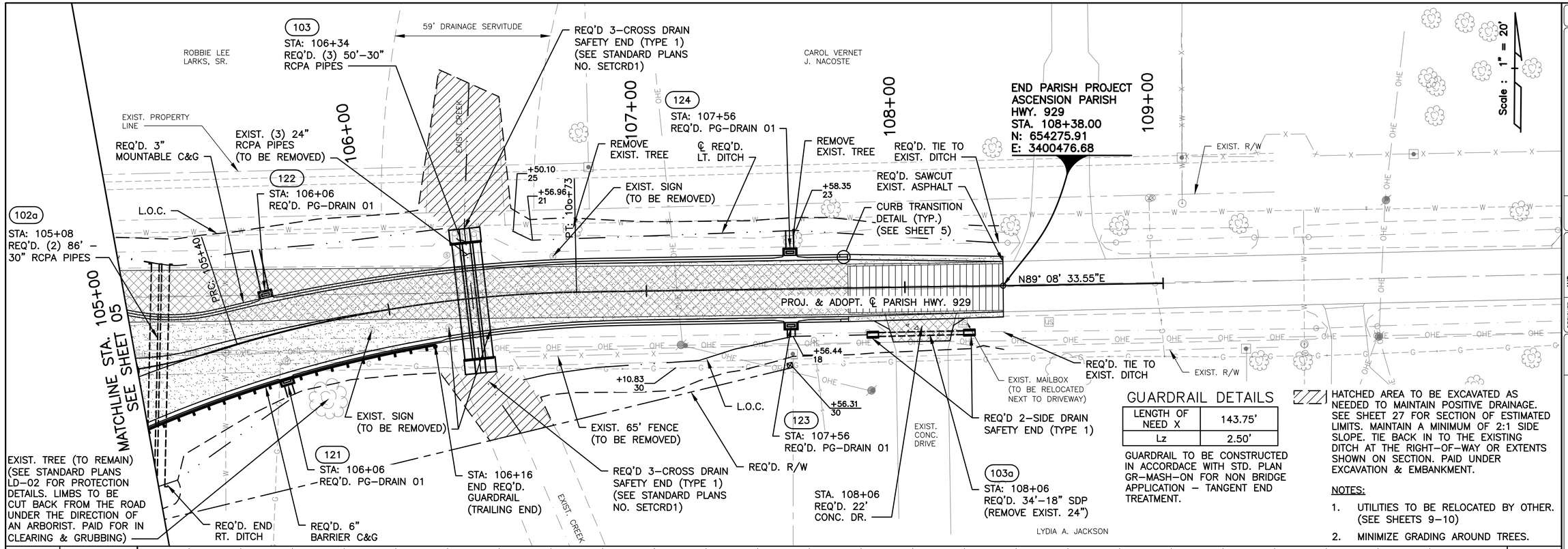
DESIGNED	CHECKED	DETAILED	CHECKED	DATE	SHEET
ANB	AMG	##	RPD	JULY 2024	2 OF 4

REVISION DESCRIPTION | NO. | DATE | BY

PLAN & PROFILE
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT



GUARDRAIL DETAILS

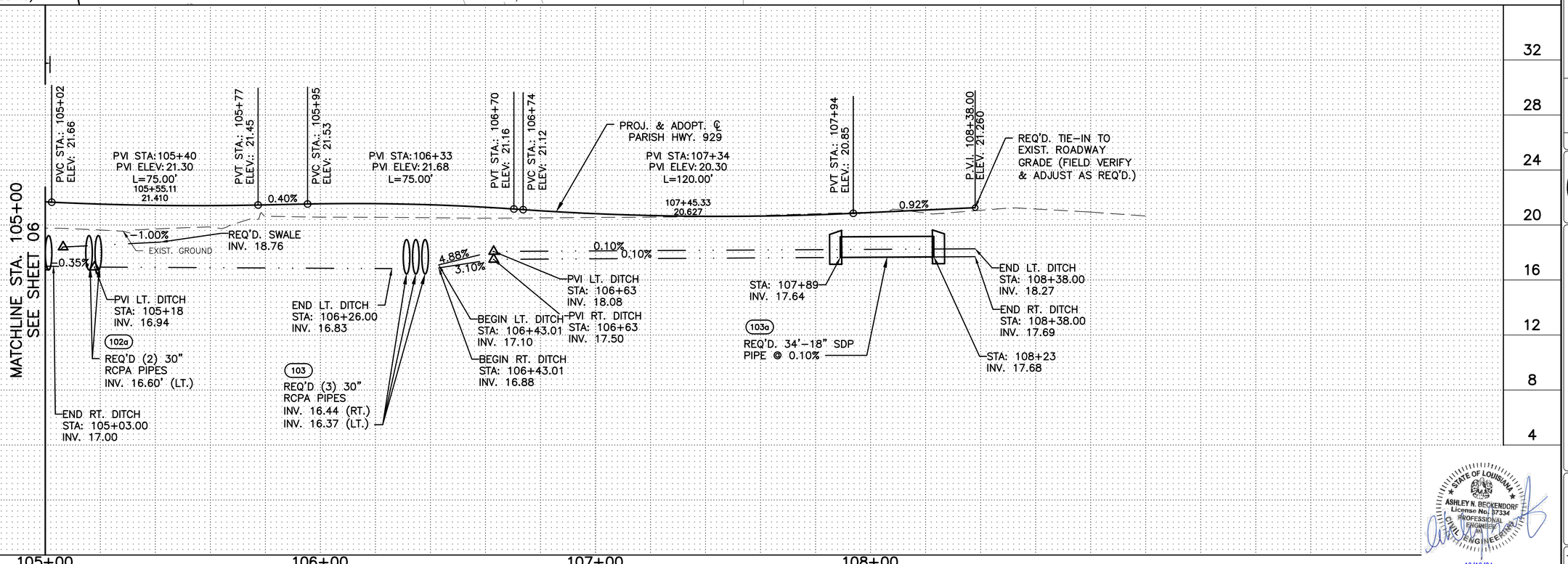
LENGTH OF NEED X	143.75'
Lz	2.50'

GUARDRAIL TO BE CONSTRUCTED IN ACCORDACE WITH STD. PLAN GR–MASH–ON FOR NON BRIDGE APPLICATION – TANGENT END TREATMENT.

HATCHED AREA TO BE EXCAVATED AS NEEDED TO MAINTAIN POSITIVE DRAINAGE. SEE SHEET 27 FOR SECTION OF ESTIMATED LIMITS. MAINTAIN A MINIMUM OF 2:1 SIDE SLOPE. TIE BACK IN TO THE EXISTING DITCH AT THE RIGHT–OF–WAY OR EXTENTS SHOWN ON SECTION. PAID UNDER EXCAVATION & EMBANKMENT.

NOTES:

1. UTILITIES TO BE RELOCATED BY OTHER. (SEE SHEETS 9–10)
2. MINIMIZE GRADING AROUND TREES.



STATE OF LOUISIANA
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10/18/24

SHEET NUMBER	06

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA–18–11

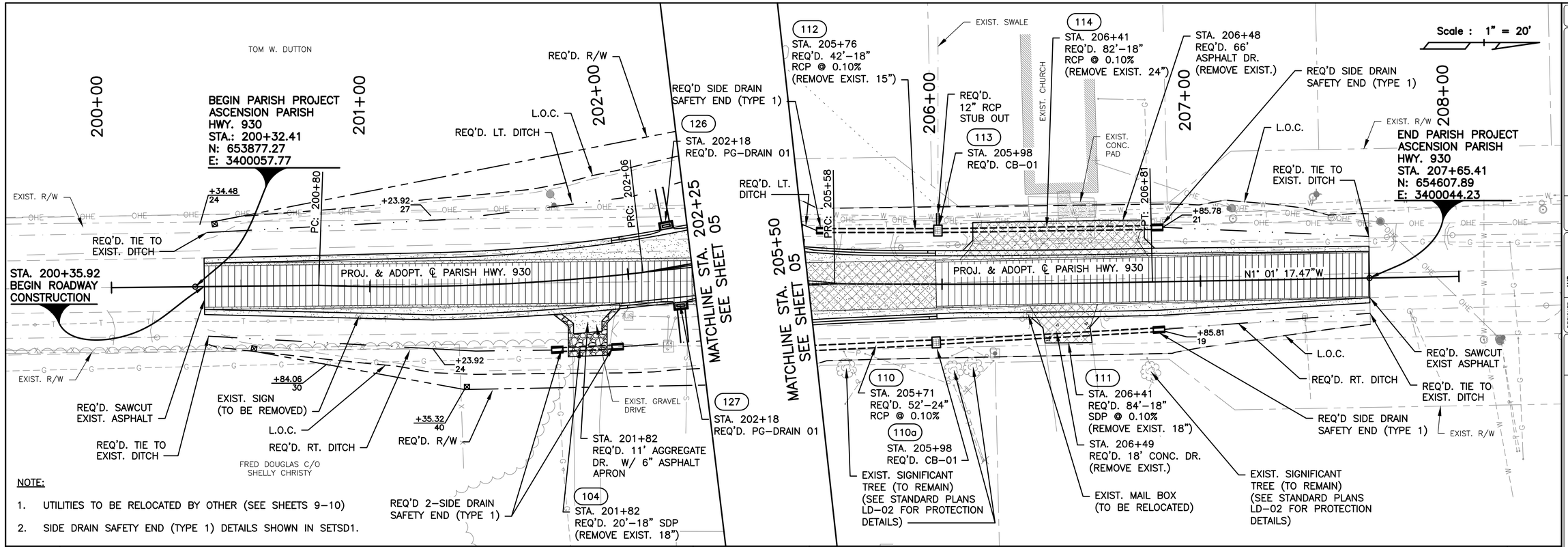
DESIGNED	CHECKED	DETAILED	CHECKED	DATE	SHEET
ANB	AMG	##	RPO	JULY 2024	3 OF 4

NO.	REVISION DESCRIPTION	BY	DATE

PLAN & PROFILE
HWY. 929 & HWY. 930 ROUNDABOUT

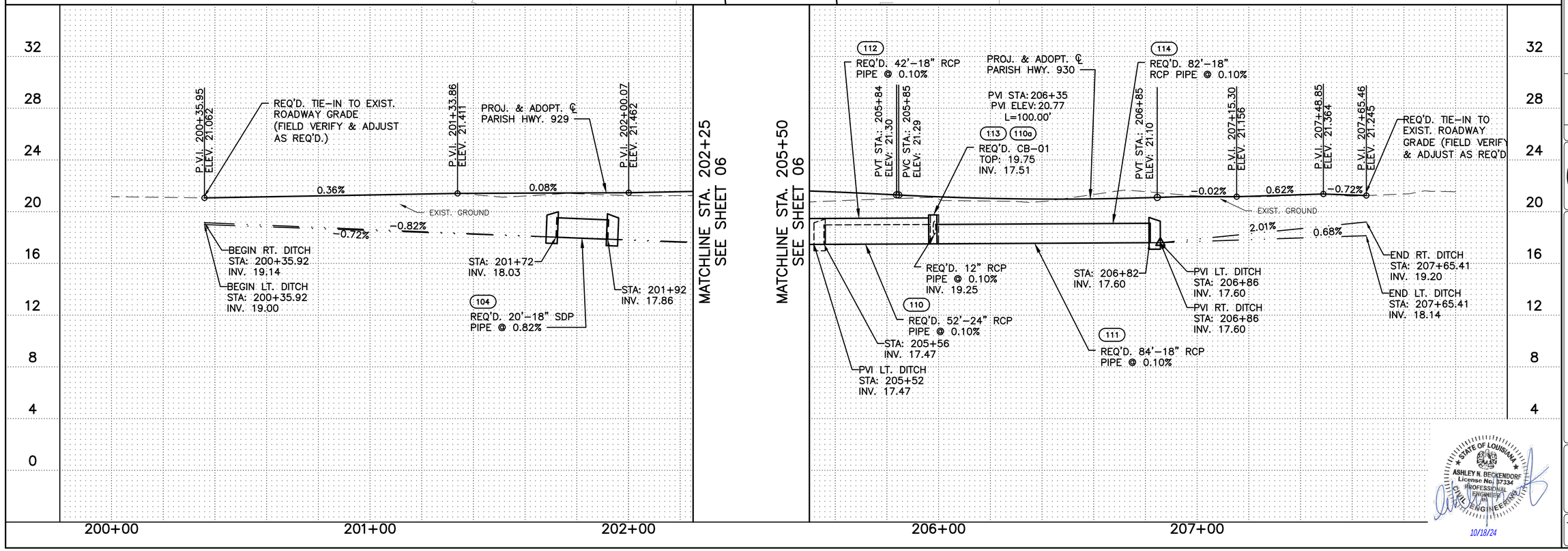
MOVE ASCENSION

VOLKERT



NOTE:

1. UTILITIES TO BE RELOCATED BY OTHER (SEE SHEETS 9-10)
2. SIDE DRAIN SAFETY END (TYPE 1) DETAILS SHOWN IN SETSD1.



STATE OF LOUISIANA
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CIVIL ENGINEERING
10/18/24

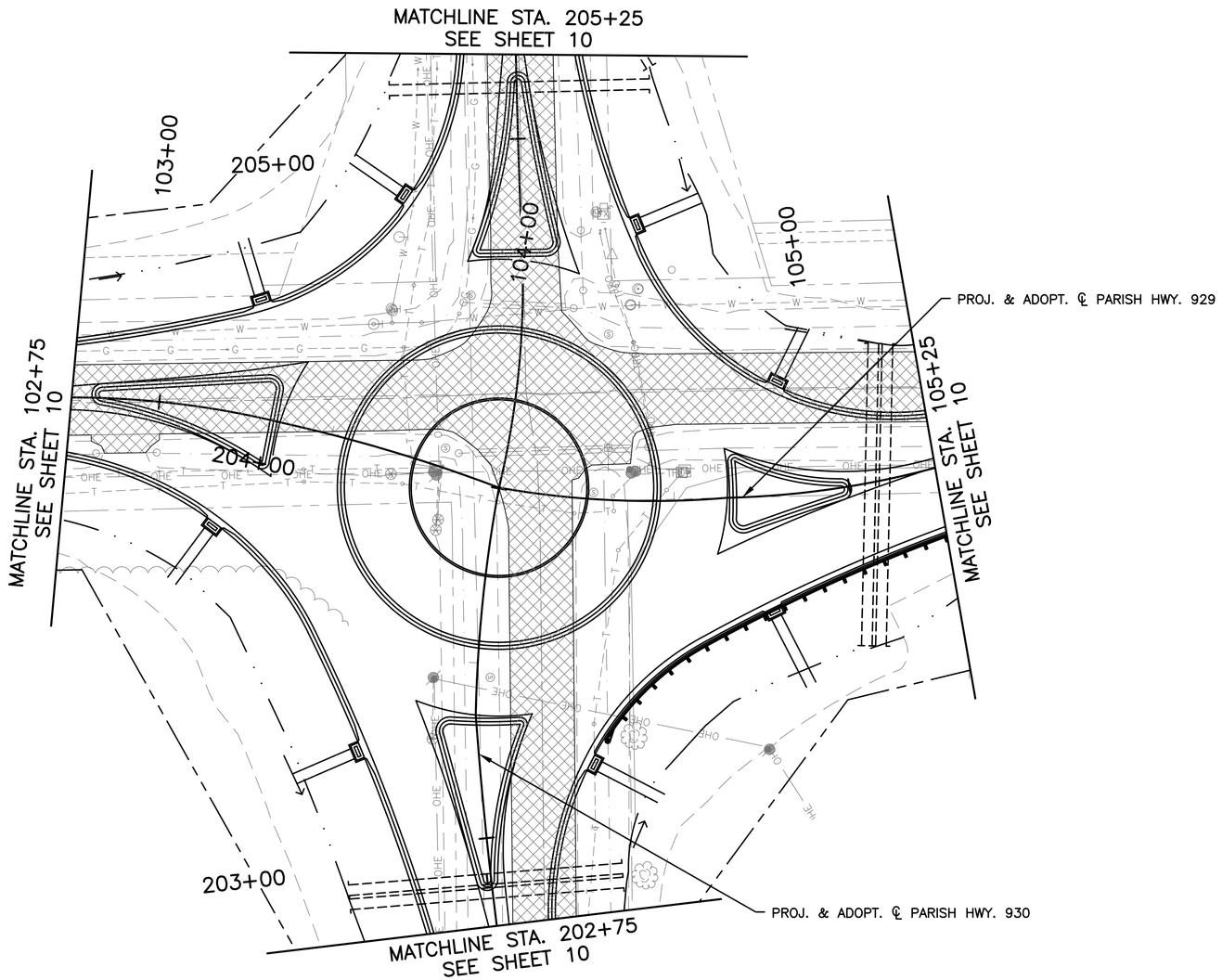
SHEET NUMBER	07
ASCENSION (PARISH)	GONZALES, LA (CITY)
	MA-18-11 (PROJECT)
DESIGNED ANB	DETAILED ##
CHECKED AMG	CHECKED RPD
DATE JULY 2024	SHEET 4 OF 4

REVISION DESCRIPTION | DATE | NO. | BY

PLAN & PROFILE
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT



Scale : 1" = 20'

FOR INFORMATION PURPOSES ONLY

NOTES:

1. ALL UTILITIES SHALL BE RELOCATED BY OTHERS, UNLESS NOTED SPECIFICALLY TO BE COMPLETED BY THE CONTRACTOR.
2. EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE IF THE LOCATIONS SHOWN ARE CORRECT AND TO DETERMINE IF THERE ARE ADDITIONAL LINES THAT ARE NOT SHOWN ON THE PLANS. ALSO, ANY SAFETY MEASURES OR METHODS THAT ARE NECESSARY TO PROTECT ALL UTILITY LINES DURING CONSTRUCTION WILL BE THE CONTRACTOR'S RESPONSIBILITY WITH NO ADDITIONAL COMPENSATION. HOWEVER, THE CONTRACTOR SHALL NOTIFY THE RESPECTIVE UTILITY OWNER FOR ANY LINES THAT MAY CONFLICT WITH CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL UTILITY ADJUSTMENTS. FOR UTILITY LOCATION SERVICE, THE CONTRACTOR SHALL CALL 1–800–272–3020 AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION.

UTILITY	
POWER	DEMCO 15095 HWY. 931 GONZALES, LA 70737 PHONE NO. (225) 261–1221
WATER	ASCENSION WATER COMPANY 8755 GOODWOOD BLVD. BATON ROUGE, LA 70806–7916 PHONE NO. (225) 952–7621, (225) 952–7619
TELEPHONE	EATEL 913 S. BURNSIDE AVE. GONZALES, LA 70737 PHONE NO. (225) 621–4728

UTILITY	
GAS	ATMOS ENERGY PHONE NO. (504) 729–0993
TV/INTERNET	COX COMMUNICATIONS 7401 FLORIDA BLVD. BATON ROUGE, LA 70737 PHONE NO. (225) 237–5098

LA One Call

CALL LOUISIANA ONE CALL 811 OR 1–800–272–3020
LOUISIANA STATE LAW, SECTION R.S.40:1749.15 REQUIRES EXCAVATORS AND DEMOLISHERS TO NOTIFY A REGIONAL NOTIFICATION CENTER BY TELEPHONE 48 TO 120 HOURS IN ADVANCE OF ANY EXCAVATION OR DEMOLITION ACTIVITY. THE OWNERS/OPERATORS OF ANY UNDERGROUND FACILITY MUST THEN MARK THE AREA OR PROVIDE INFORMATION THAT WILL ENABLE AN EXCAVATOR OR DEMOLISHER TO DETERMINE THE LOCATION OF UNDERGROUND FACILITIES.

STATE OF LOUISIANA
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CIVIL ENGINEERING
10/18/24

SHEET NUMBER	08
PARISH	ASCENSION
CITY	GONZALES, LA
PROJECT	MA–18–11
DESIGNED	ANB
CHECKED	AMG
DETAILED	PWL
CHECKED	RPO
DATE	JULY 2024
SHEET	1 OF 2

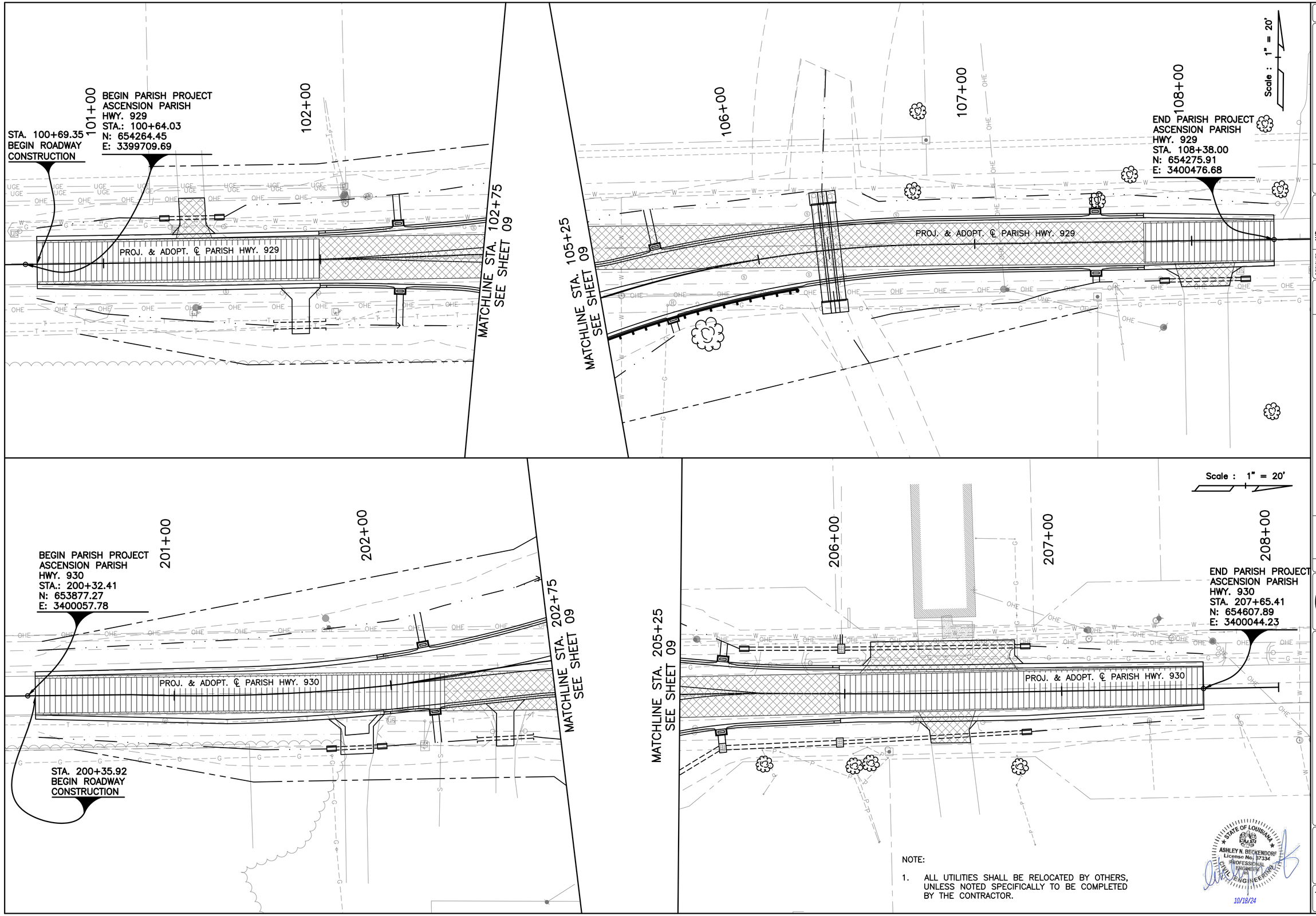
NO.	REVISION DESCRIPTION	DATE	BY

UTILITY RELOCATION PLAN

HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT



NOTE:

1. ALL UTILITIES SHALL BE RELOCATED BY OTHERS, UNLESS NOTED SPECIFICALLY TO BE COMPLETED BY THE CONTRACTOR.

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
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CIVIL ENGINEERING
10/18/24

SHEET NUMBER	09
PARISH	ASCENSION
CITY	GONZALES, LA
PROJECT	MA-18-11
DESIGNED	ANB
CHECKED	AMG
DETAILED	PML
CHECKED	RPO
DATE	JULY 2024
SHEET	2 OF 2

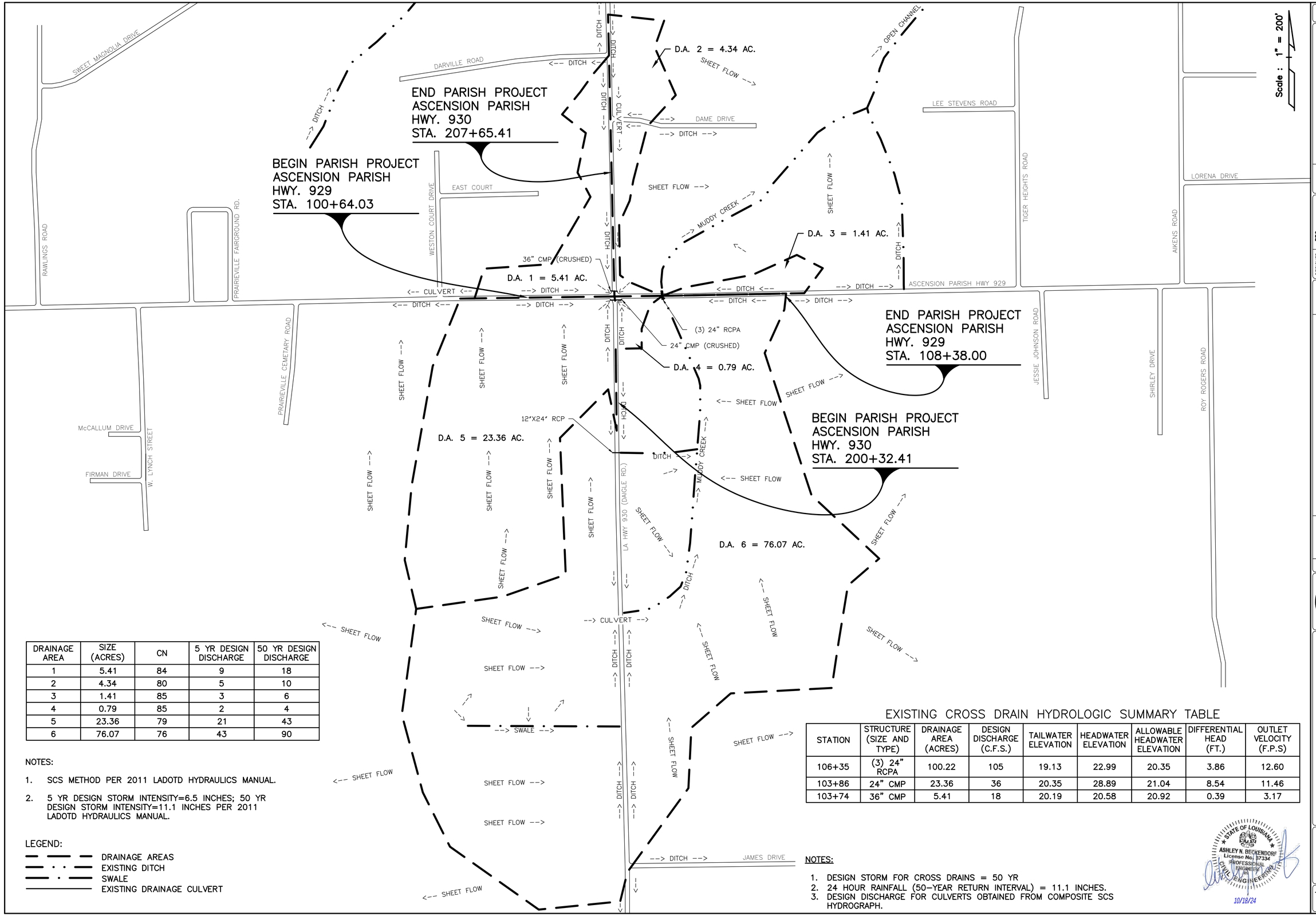
REVISION DESCRIPTION | BY | NO. | DATE

UTILITY RELOCATION PLAN

HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT



DRAINAGE AREA	SIZE (ACRES)	CN	5 YR DESIGN DISCHARGE	50 YR DESIGN DISCHARGE
1	5.41	84	9	18
2	4.34	80	5	10
3	1.41	85	3	6
4	0.79	85	2	4
5	23.36	79	21	43
6	76.07	76	43	90

NOTES:

1. SCS METHOD PER 2011 LADOTD HYDRAULICS MANUAL.
2. 5 YR DESIGN STORM INTENSITY=6.5 INCHES; 50 YR DESIGN STORM INTENSITY=11.1 INCHES PER 2011 LADOTD HYDRAULICS MANUAL.

LEGEND:

- DRAINAGE AREAS
- EXISTING DITCH
- SWALE
- EXISTING DRAINAGE CULVERT

EXISTING CROSS DRAIN HYDROLOGIC SUMMARY TABLE

STATION	STRUCTURE (SIZE AND TYPE)	DRAINAGE AREA (ACRES)	DESIGN DISCHARGE (C.F.S.)	TAILWATER ELEVATION	HEADWATER ELEVATION	ALLOWABLE HEADWATER ELEVATION	DIFFERENTIAL HEAD (FT.)	OUTLET VELOCITY (F.P.S)
106+35	(3) 24" RCPA	100.22	105	19.13	22.99	20.35	3.86	12.60
103+86	24" CMP	23.36	36	20.35	28.89	21.04	8.54	11.46
103+74	36" CMP	5.41	18	20.19	20.58	20.92	0.39	3.17

NOTES:

1. DESIGN STORM FOR CROSS DRAINS = 50 YR
2. 24 HOUR RAINFALL (50-YEAR RETURN INTERVAL) = 11.1 INCHES.
3. DESIGN DISCHARGE FOR CULVERTS OBTAINED FROM COMPOSITE SCS HYDROGRAPH.

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
10/18/24

SHEET NUMBER 10

ASCENSION | GONZALES, LA | MA-18-11
PARISH | CITY | PROJECT

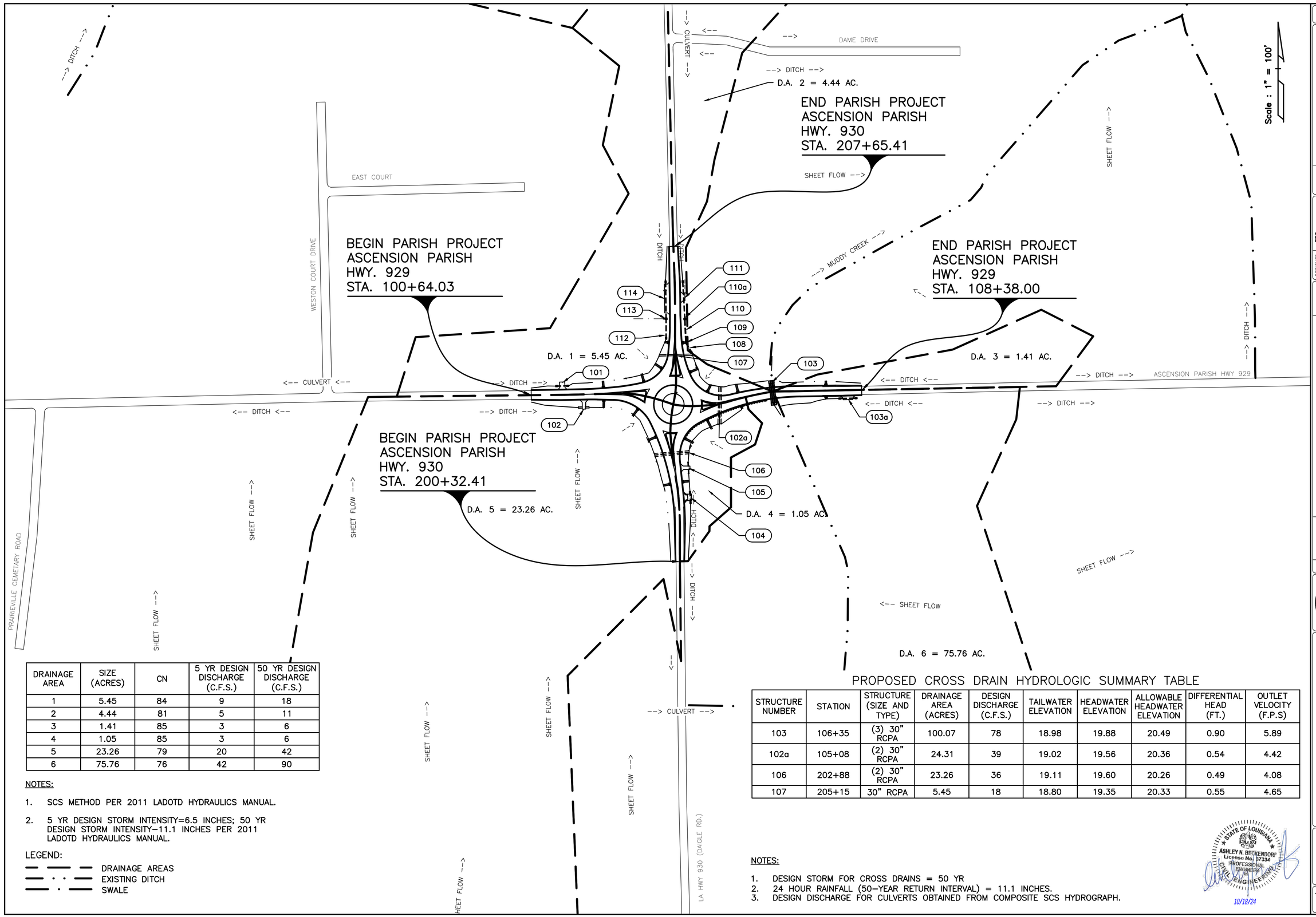
DESIGNED RPO | DETAILED PWL | DATE JULY 2024
CHECKED AMG | CHECKED RPO | SHEET 1 OF 1

REVISION DESCRIPTION | DATE | BY | NO.

EXISTING DRAINAGE MAP
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT



DRAINAGE AREA	SIZE (ACRES)	CN	5 YR DESIGN DISCHARGE (C.F.S.)	50 YR DESIGN DISCHARGE (C.F.S.)
1	5.45	84	9	18
2	4.44	81	5	11
3	1.41	85	3	6
4	1.05	85	3	6
5	23.26	79	20	42
6	75.76	76	42	90

NOTES:

1. SCS METHOD PER 2011 LADOTD HYDRAULICS MANUAL.
2. 5 YR DESIGN STORM INTENSITY=6.5 INCHES; 50 YR DESIGN STORM INTENSITY=11.1 INCHES PER 2011 LADOTD HYDRAULICS MANUAL.

LEGEND:

DRAINAGE AREAS
EXISTING DITCH
SWALE

PROPOSED CROSS DRAIN HYDROLOGIC SUMMARY TABLE

STRUCTURE NUMBER	STATION	STRUCTURE (SIZE AND TYPE)	DRAINAGE AREA (ACRES)	DESIGN DISCHARGE (C.F.S.)	TAILWATER ELEVATION	HEADWATER ELEVATION	ALLOWABLE HEADWATER ELEVATION	DIFFERENTIAL HEAD (FT.)	OUTLET VELOCITY (F.P.S)
103	106+35	(3) 30" RCPA	100.07	78	18.98	19.88	20.49	0.90	5.89
102a	105+08	(2) 30" RCPA	24.31	39	19.02	19.56	20.36	0.54	4.42
106	202+88	(2) 30" RCPA	23.26	36	19.11	19.60	20.26	0.49	4.08
107	205+15	30" RCPA	5.45	18	18.80	19.35	20.33	0.55	4.65

NOTES:

1. DESIGN STORM FOR CROSS DRAINS = 50 YR
2. 24 HOUR RAINFALL (50-YEAR RETURN INTERVAL) = 11.1 INCHES.
3. DESIGN DISCHARGE FOR CULVERTS OBTAINED FROM COMPOSITE SCS HYDROGRAPH.

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
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PROFESSIONAL ENGINEER
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10/18/24

SHEET NUMBER 11

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA-18-11

DESIGNED	CHECKED	DETAILED	CHECKED	DATE	SHEET
RPO	AMG	PWL	RPO	JULY 2024	1 OF 1

REVISION DESCRIPTION | BY | DATE | NO.

DESIGN DRAINAGE MAP

HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT

SUMMARY OF DRAINAGE STRUCTURES

STRUCTURE NO.	STATION	SIDE OF ℄	DESCRIPTION	TYPE	CROSS DRAIN PIPE ARCH 30" LN. FT.	SIDE DRAIN PIPE 18" LN. FT.	SIDE DRAIN PIPE 24" LN. FT.	SIDE DRAIN PIPE ARCH 30" LN. FT.	CATCH BASIN CB-01 EACH	BEDDING MATERIAL CU. YD.	CROSS DRAIN SAFETY END TYPE 1 EACH	SIDE DRAIN SAFETY END TYPE 1 EACH	PAVED GUTTER DRAIN EACH
101	101+41	LT	SIDE DRAIN PIPE, 18" x 22'	SDP		22				2.04		2	
102	101+90	RT	SIDE DRAIN PIPE ARCH, 30" x 24'	SDPA				24		2.93			
102a	105+08		CROSS DRAIN PIPE ARCH, (2) 30" EQ. x 84'	RCPA	172					34.87			
103	106+34		CROSS DRAIN PIPE ARCH, (3) 30" EQ. x 50'	RCPA	150					30.45	6		
103a	108+06	RT.	SIDE DRAIN PIPE, 18" x 34'	SDP		34				3.15		2	
104	201+82	RT	SIDE DRAIN PIPE, 18" x 20'	SDP		20				1.85		2	
105	202+49	RT	SIDE DRAIN PIPE, 18" x 26'	SDP		26				2.41			
106	202+86		CROSS DRAIN PIPE ARCH, (2) 30" x 78'	RCPA	156					16.19			
107	205+15		CROSS DRAIN PIPE ARCH, 30" x 74'	RCPA	74					9.04			
108	205+33	RT	SIDE DRAIN PIPE, 24" x 26'	SDP			26			2.65			
109	205+43	RT	CATCH BASIN, CB-01	CB-01					1				
110	205+71	RT	SIDE DRAIN PIPE, 24" x 52'	SDP			52			5.30			
110a	205+98	RT	CATCH BASIN, CB-01	CB-01					1				
111	206+41	RT	SIDE DRAIN PIPE, 18" x 84'	SDP		84				7.78		1	
112	205+76	LT	SIDE DRAIN PIPE, 18" x 42'	SDP		42				3.89		1	
113	205+98	LT	CATCH BASIN, CB-01	CB-01					1				
114	206+41	LT	SIDE DRAIN PIPE, 18" x 82'	SDP		82				7.59		1	
115	102+36	LT	PAVED GUTTER DRAIN										1
116	102+36	RT.	PAVED GUTTER DRAIN										1
117	103+20	RT	PAVED GUTTER DRAIN										1
118	103+23	LT.	PAVED GUTTER DRAIN										1
119	104+76	RT	PAVED GUTTER DRAIN										1
120	104+81	LT.	PAVED GUTTER DRAIN										1
121	105+54	RT	PAVED GUTTER DRAIN										1
122	105+55	LT.	PAVED GUTTER DRAIN										1
123	107+55	RT.	PAVED GUTTER DRAIN										1
124	107+55	LT.	PAVED GUTTER DRAIN										1
125	202+17	LT.	PAVED GUTTER DRAIN										1
126	202+18	RT.	PAVED GUTTER DRAIN										1
127	204+73	RT.	PAVED GUTTER DRAIN										1
128	204+84	LT.	PAVED GUTTER DRAIN										1
129	205+42	RT.	PAVED GUTTER DRAIN										1
130	205+44	LT.	PAVED GUTTER DRAIN										1
TOTALS					552	310	78	24	3	130.14	6	9	16

PIPE REMOVAL TABLE

STATION	SIDE OF ℄	DESCRIPTION	TYPE	REMOVAL OF CROSS DRAIN	REMOVAL OF SIDE DRAIN
101+41	LT.	18" SIDE DRAIN PIPE	CMP		25
101+90	RT.	24" SIDE DRAIN PIPE	RCP		17
106+29		24" CROSS DRAIN PIPE	RCP	40	
106+32		24" CROSS DRAIN PIPE	RCP	40	
106+36		24" CROSS DRAIN PIPE	RCP	40	
108+06	RT.	24" SIDE DRAIN PIPE	RCP		34
201+82	RT.	18" SIDE DRAIN PIPE	RCP		21
202+49	RT.	18" SIDE DRAIN PIPE	RCP		15
204+11		24" CROSS DRAIN PIPE	CMP	54	
204+53		36" CROSS DRAIN PIPE	CMP	32	
204+65	RT.	15" SIDE DRAIN PIPE	CMP		17
205+69	LT.	15" SIDE DRAIN PIPE	UNKNOWN		30
206+40	LT.	24" SIDE DRAIN PIPE	RCP		73
206+41	RT.	18" SIDE DRAIN PIPE	CMP		33
TOTALS				206	265

STATE OF LOUISIANA
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10/18/24

SHEET NUMBER 12

ASCENSION (PARISH) | GONZALES, LA (CITY) | MA-18-11 (PROJECT)

DESIGNED ANB | CHECKED AMG | DETAILED PWL | CHECKED RPO | DATE JULY 2024 | SHEET 1 OF 1

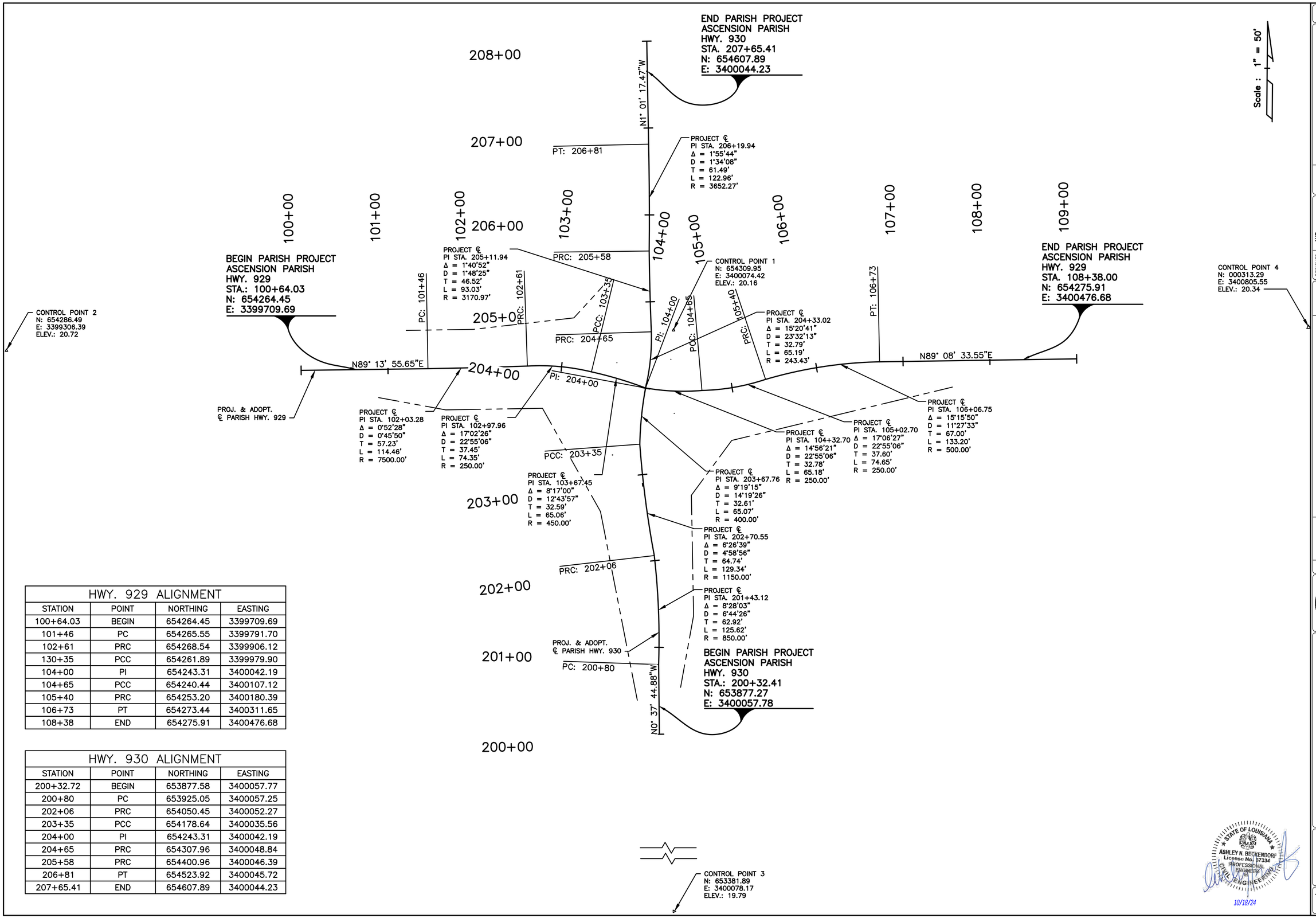
REVISION DESCRIPTION | BY | NO. | DATE

SUMMARY OF DRAINAGE STRUCTURES

HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT



HWY. 929 ALIGNMENT			
STATION	POINT	NORTHING	EASTING
100+64.03	BEGIN	654264.45	3399709.69
101+46	PC	654265.55	3399791.70
102+61	PRC	654268.54	3399906.12
130+35	PCC	654261.89	3399979.90
104+00	PI	654243.31	3400042.19
104+65	PCC	654240.44	3400107.12
105+40	PRC	654253.20	3400180.39
106+73	PT	654273.44	3400311.65
108+38	END	654275.91	3400476.68

HWY. 930 ALIGNMENT			
STATION	POINT	NORTHING	EASTING
200+32.72	BEGIN	653877.58	3400057.77
200+80	PC	653925.05	3400057.25
202+06	PRC	654050.45	3400052.27
203+35	PCC	654178.64	3400035.56
204+00	PI	654243.31	3400042.19
204+65	PRC	654307.96	3400048.84
205+58	PRC	654400.96	3400046.39
206+81	PT	654523.92	3400045.72
207+65.41	END	654607.89	3400044.23

SHEET NUMBER 13

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA-18-11

DESIGNED	CHECKED	DETAILED	CHECKED	DATE	SHEET
ANB	AMG	###	RPO	JULY 2024	1 OF 1

REVISION DESCRIPTION | BY | DATE | NO.

GEOMETRIC LAYOUT & REFERENCE POINTS

HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

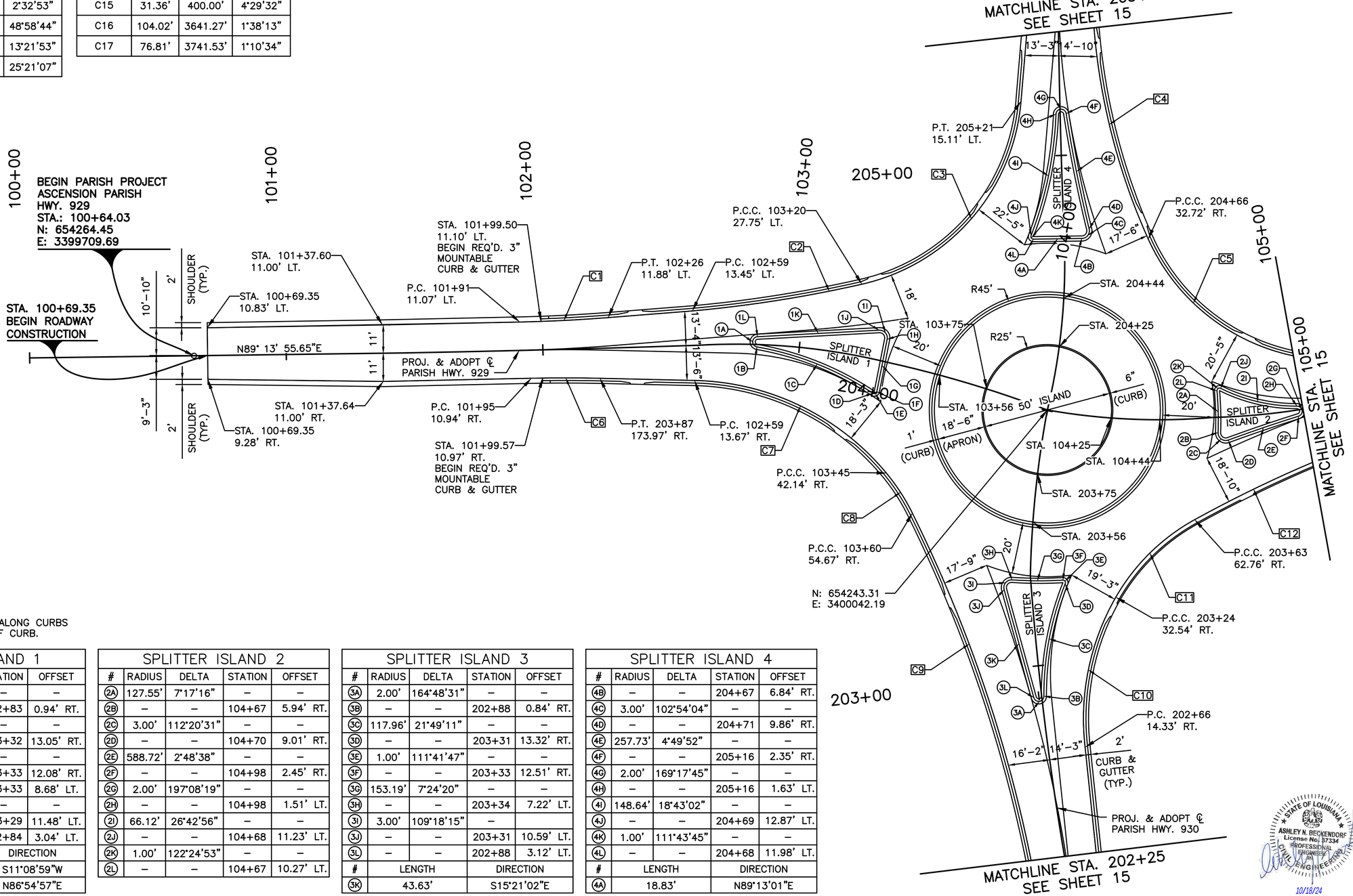
VOLKERT

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
CIVIL ENGINEERING

10/18/24

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C1	34.48'	600.00'	3°17'35"
C2	66.89'	500.00'	7°39'54"
C3	101.08'	80.00'	72°23'39"
C4	94.38'	250.00'	21°37'53"
C5	111.52'	80.00'	79°52'19"
C6	26.68'	600.00'	2°32'53"
C7	85.48'	100.00'	48°58'44"
C8	18.66'	80.00'	13°21'53"
C9	243.36'	550.00'	25°21'07"

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C10	60.74'	95.00'	36°38'01"
C11	43.65'	80.00'	31°15'47"
C12	245.50'	500.00'	28°07'58"
C13	153.30'	650.00'	13°30'48"
C14	83.35'	861.00'	5°32'48"
C15	31.36'	400.00'	4°29'32"
C16	104.02'	3641.27'	1°38'13"
C17	76.81'	3741.53'	1°10'34"



NOTE:

1. ALL STATION CALLOUTS ALONG CURBS ARE STATIONED BACK OF CURB.

SPLITTER ISLAND 1				
#	RADIUS	DELTA	STATION	OFFSET
1A	2.00'	167°01'26"	–	–
1B	–	–	102+83	0.94' RT.
1C	118.01'	23°47'57"	–	–
1D	–	–	103+32	13.05' RT.
1E	1.00'	112°44'58"	–	–
1F	–	–	103+33	12.08' RT.
1H	–	–	103+33	8.68' LT.
1I	3.00'	104°14'02"	–	–
1J	–	–	103+29	11.48' LT.
1L	–	–	102+84	3.04' LT.
#	LENGTH		DIRECTION	
1G	20.77'		S11°08'59"W	
1K	47.47'		N86°54'57"E	

SPLITTER ISLAND 2				
#	RADIUS	DELTA	STATION	OFFSET
2A	127.55'	7°17'16"	–	–
2B	–	–	104+67	5.94' RT.
2C	3.00'	112°20'31"	–	–
2D	–	–	104+70	9.01' RT.
2E	588.72'	2°48'38"	–	–
2F	–	–	104+98	2.45' RT.
2G	2.00'	197°08'19"	–	–
2H	–	–	104+98	1.51' LT.
2I	66.12'	26°42'56"	–	–
2J	–	–	104+68	11.23' LT.
2K	1.00'	122°24'53"	–	–
2L	–	–	104+67	10.27' LT.

SPLITTER ISLAND 3				
#	RADIUS	DELTA	STATION	OFFSET
3A	2.00'	164°48'31"	–	–
3B	–	–	202+88	0.84' RT.
3C	117.96'	21°49'11"	–	–
3D	–	–	203+31	13.32' RT.
3E	1.00'	111°41'47"	–	–
3F	–	–	203+33	12.51' RT.
3G	153.19'	7°24'20"	–	–
3H	–	–	203+34	7.22' LT.
3I	3.00'	109°18'15"	–	
3J	–	–	203+31	10.59' LT.
3L	–	–	202+88	3.12' LT.
#	LENGTH		DIRECTION	
3K	43.63'		S15°21'02"E	

SPLITTER ISLAND 4				
#	RADIUS	DELTA	STATION	OFFSET
4B	–	–	204+67	6.84' RT.
4C	3.00'	102°54'04"	–	–
4D	–	–	204+71	9.86' RT.
4E	257.73'	4°49'52"	–	–
4F	–	–	205+16	2.35' RT.
4G	2.00'	169°17'45"	–	–
4H	–	–	205+16	1.63' LT.
4I	148.64'	18°43'02"	–	–
4J	–	–	204+69	12.87' LT.
4K	1.00'	111°43'45"	–	–
4L	–	–	204+68	11.98' LT.
#	LENGTH		DIRECTION	
4A	18.83'		N89°13'01"E	

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
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PROFESSIONAL ENGINEER
10/18/24

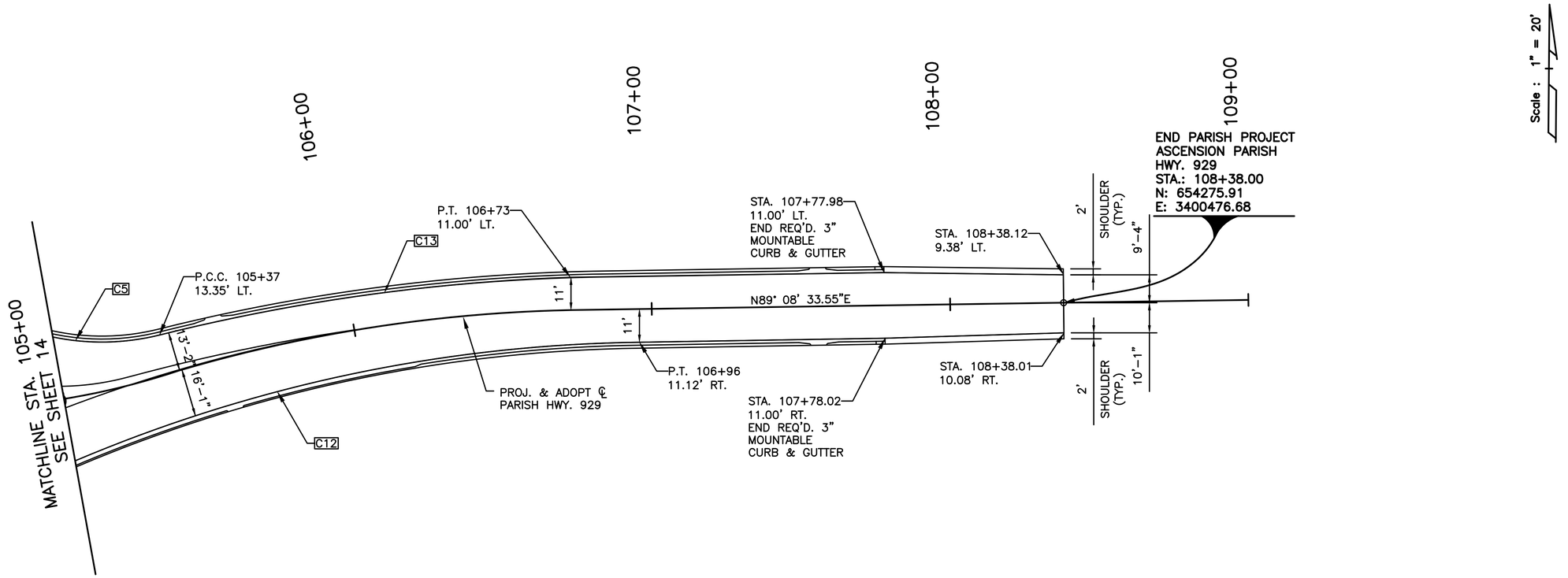
SHEET NUMBER	14
PARISH	ASCENSION
CITY	GONZALES, LA
PROJECT	MA-18-11
DESIGNED	ANB
CHECKED	AMG
DETAILED	PWL
CHECKED	RPO
DATE	JULY 2024
SHEET	1 OF 2
BY	
NO.	REVISION DESCRIPTION
DATE	

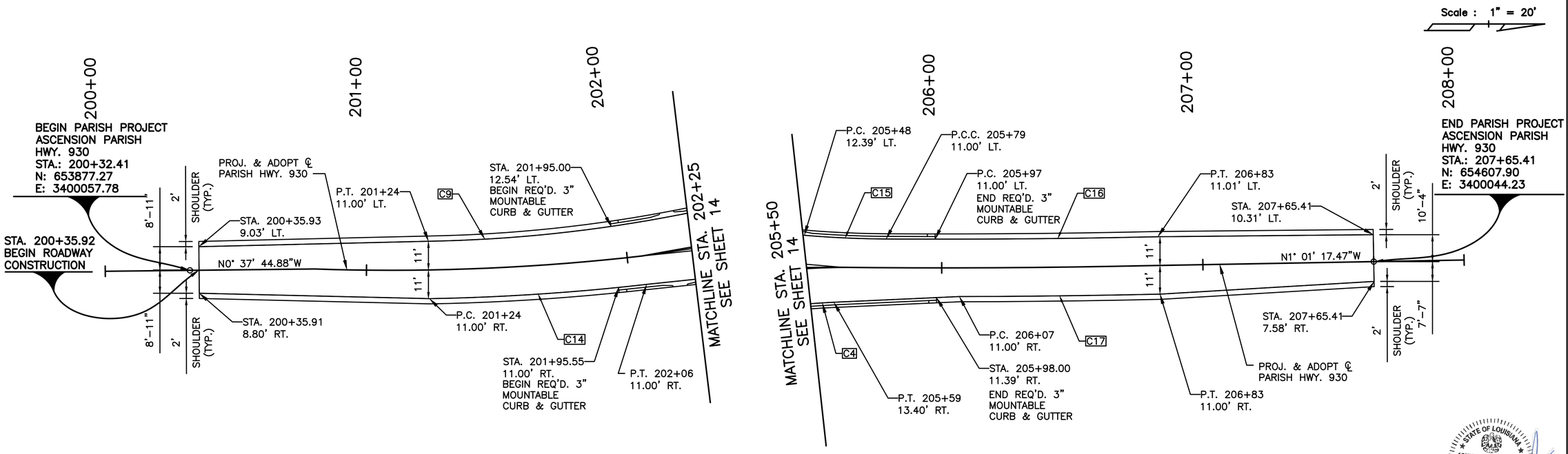
GEOMETRIC DETAILS

HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT





STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
10/18/24

SHEET NUMBER 15

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA-18-11

DESIGNED	ANB	DATE	JULY 2024
CHECKED	AMG	SHEET	2 OF 2
DETAILED	PML		
CHECKED	RPO		

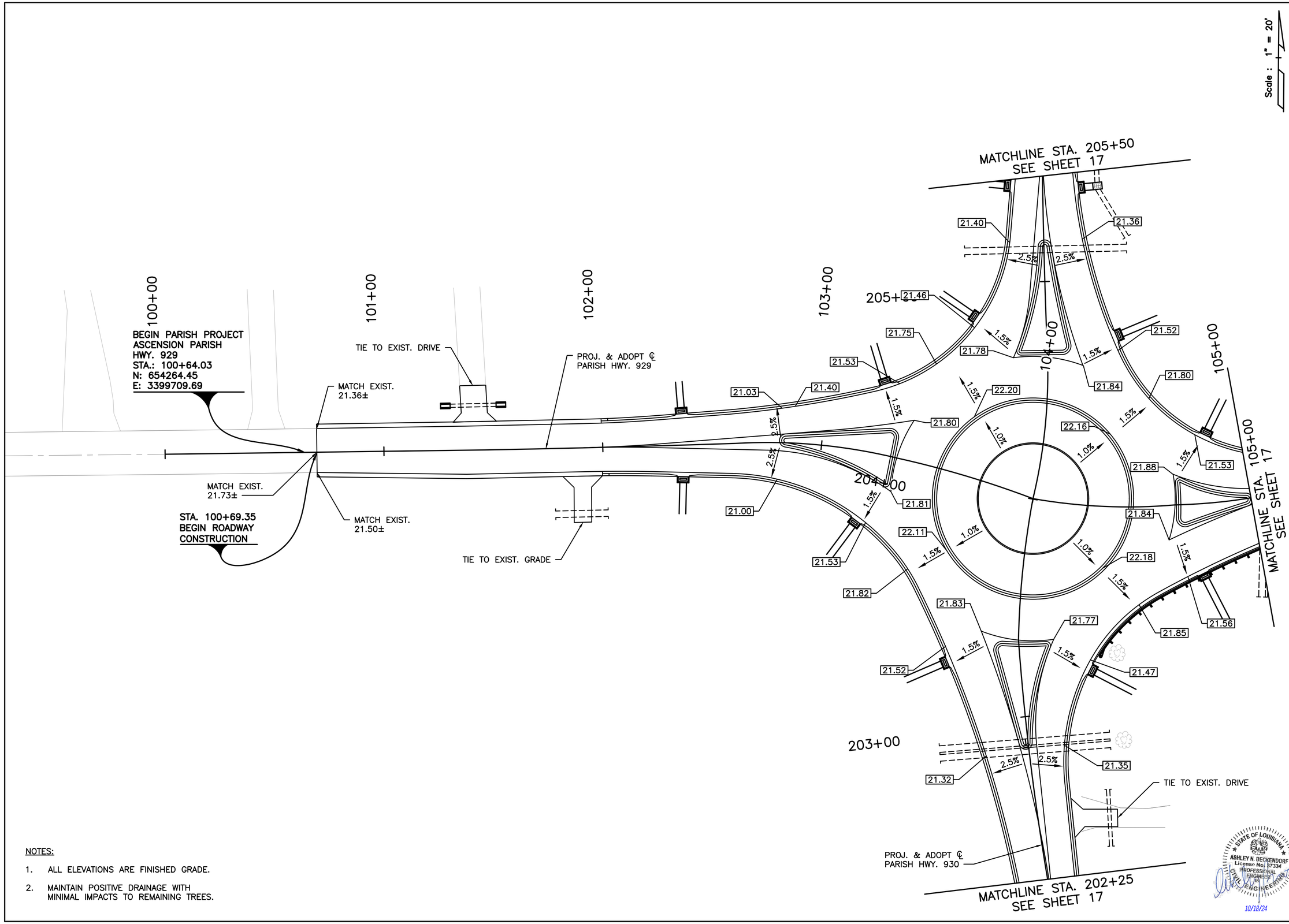
NO.	REVISION DESCRIPTION	DATE	BY

GEOMETRIC DETAILS

HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT



NOTES:

1. ALL ELEVATIONS ARE FINISHED GRADE.
2. MAINTAIN POSITIVE DRAINAGE WITH MINIMAL IMPACTS TO REMAINING TREES.

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
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CIVIL ENGINEERING
10/18/24

SHEET NUMBER	16
PARISH	ASCENSION
CITY	GONZALES, LA
PROJECT	MA-18-11
DESIGNED	ANB
CHECKED	AMG
DETAILED	###
CHECKED	RPO
DATE	JULY 2024
SHEET	1 OF 2

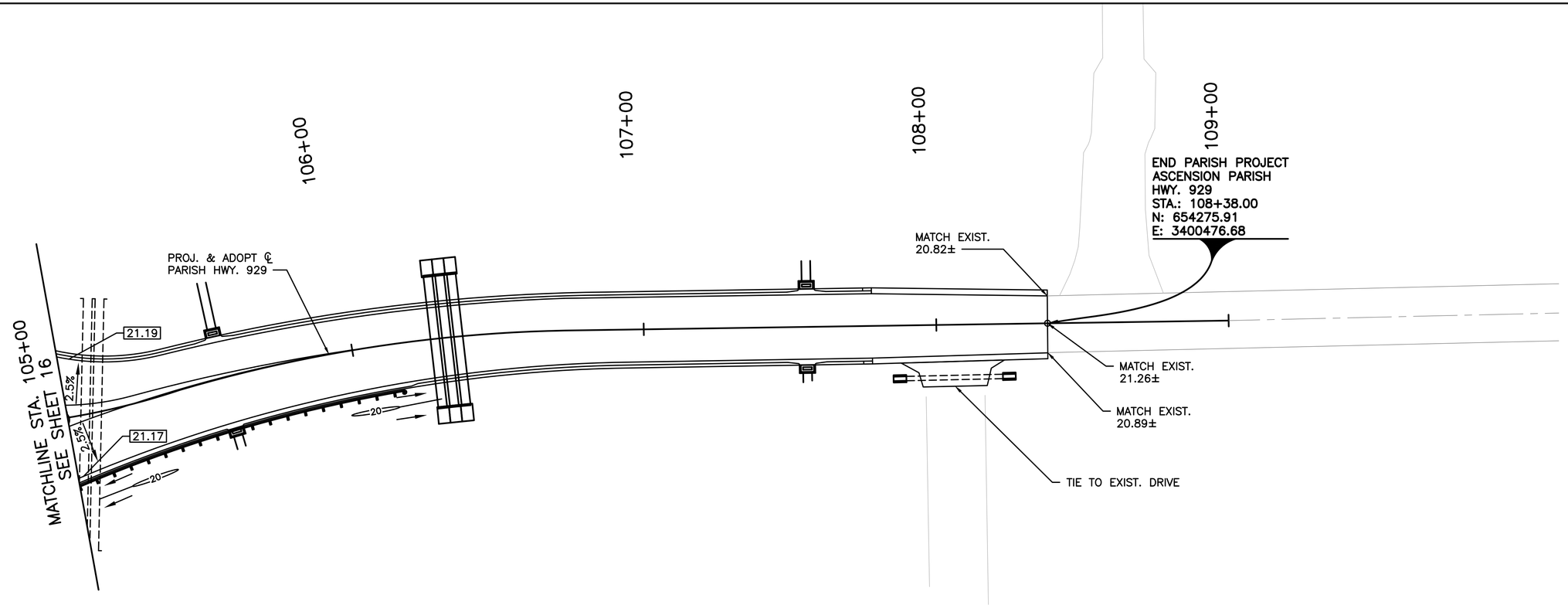
REVISION DESCRIPTION | BY | NO. | DATE

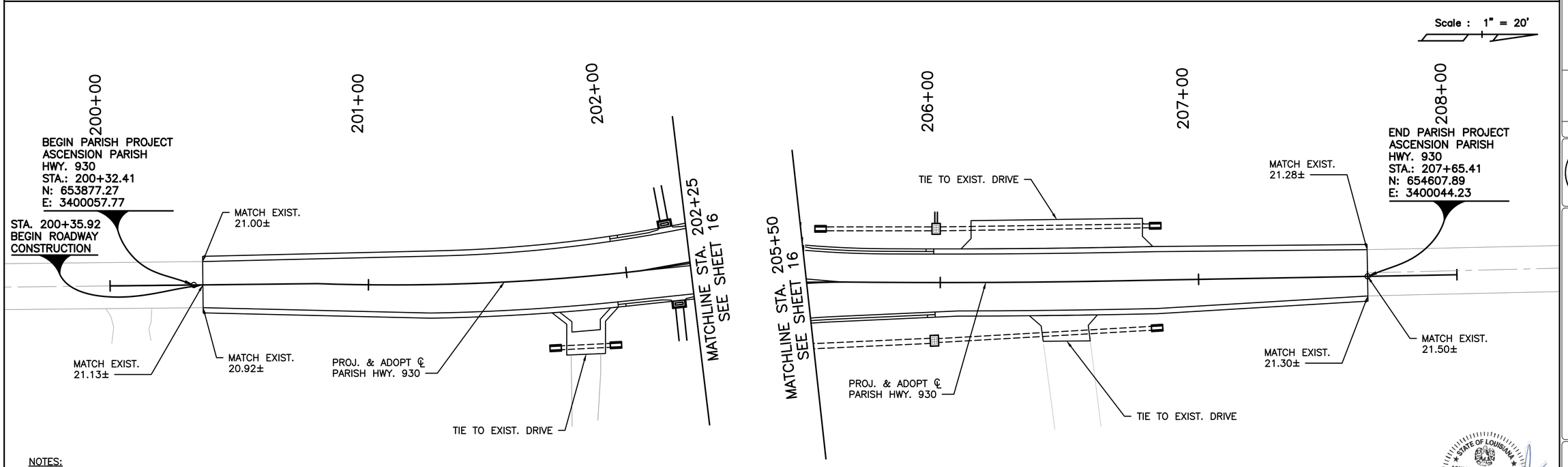
GRADING PLAN

HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT





NOTES:

1. ALL ELEVATIONS ARE FINISHED GRADE.
2. MAINTAIN POSITIVE DRAINAGE WITH MINIMAL IMPACTS TO REMAINING TREES.

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
10/18/24

SHEET NUMBER 17

PARISH: ASCENSION
CITY: GONZALES, LA
PROJECT: MA-18-11

DESIGNED: ANB
CHECKED: AMG
DETAILED: ##
CHECKED: RPO
DATE: JULY 2024
SHEET: 2 OF 2

REVISION DESCRIPTION | BY | NO. | DATE

GRADING PLAN

HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT

Scale : 1" = 20'

100+00
BEGIN PARISH PROJECT
ASCENSION PARISH
HWY. 929
STA.: 100+64.03
N: 654264.45
E: 3399709.69

STA. 100+69.35
BEGIN ROADWAY
CONSTRUCTION

101+00

102+00

103+00

205+00

104+00

105+00

MATCHLINE STA. 205+50
SEE SHEET 19

MATCHLINE STA. 105+00
SEE SHEET 19

MATCHLINE STA. 202+25
SEE SHEET 19

203+00

204+00

4" SOLID WHITE
(TYP.)

12" SOLID YELLOW
DIAGONAL STRIPING
AT 12' SPACING
(TYP.)

8" SOLID WHITE
(TYP.)

12" SOLID WHITE
DIAGONAL STRIPING
AT 10' SPACING

4" SOLID YELLOW
(TYP.)

8" SOLID YELLOW

24" TYPE B
DOTTED WHITE
(TYP.)

TRUCK APRON

PROJ. & ADOPT. ℄ PARISH HWY. 929

PROJ. & ADOPT. ℄ PARISH HWY. 930

STA. 204+64

STA. 103+36

STA. 104+64

STA. 203+36

100'
100'
125'
100'
110'
100'
125'
105'
105'
100'

LEGEND:

1	2	3	4	5	6
ASCENSION 929 PARISH	ASCENSION 930 PARISH	NORTH	EAST	SOUTH	WEST
M1-6	M1-6	M3-1	M3-2	M3-3	M3-4
7	8	9	10	11	12
			YIELD	SPEED LIMIT 35	SPEED LIMIT 40
M5-3	M6-1	M6-2	R1-2	R2-1	R2-1
13	14	15	16	17	18
SPEED LIMIT 45	ONE WAY				15 MPH
R2-1	R6-1	R6-4	W2-6	W3-2	W13-1P

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
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PROFESSIONAL ENGINEER
IN CIVIL ENGINEERING
10/18/24

SHEET NUMBER	18
PARISH	ASCENSION
CITY	GONZALES, LA
PROJECT	MA-18-11
DESIGNED	ANB
CHECKED	AMG
DETAILED	RPO
CHECKED	
DATE	JULY 2024
SHEET	1 OF 2

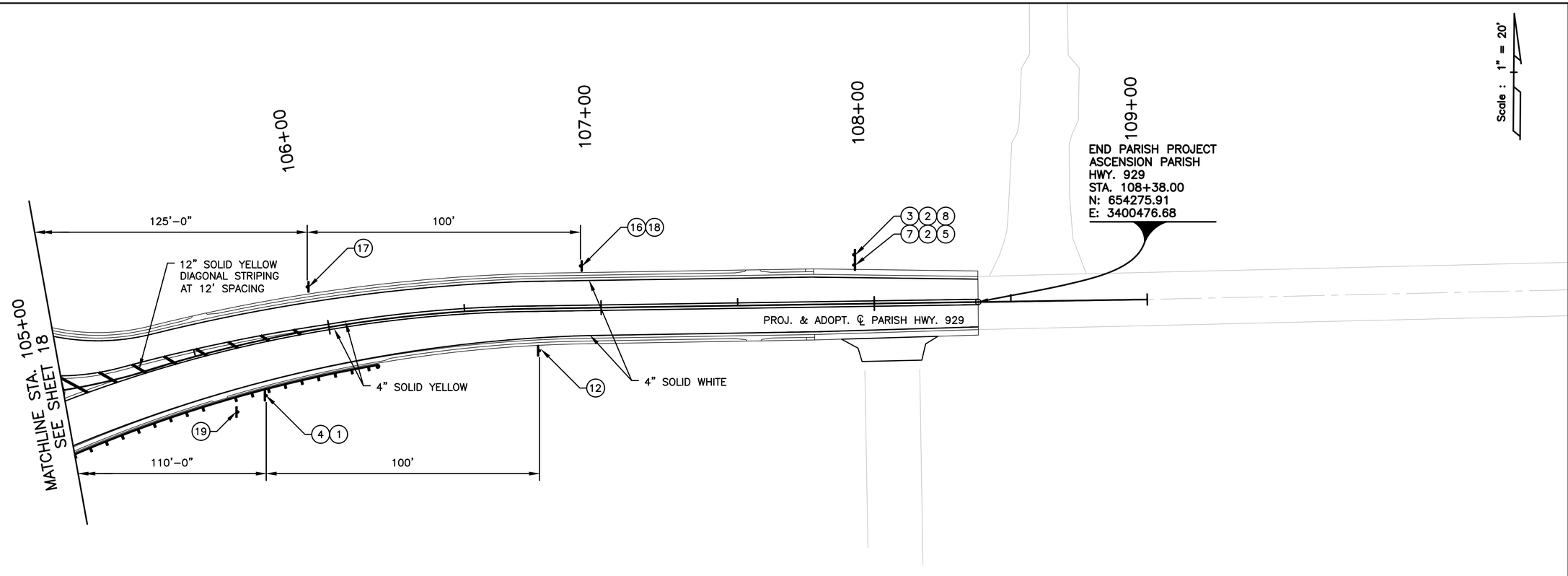
REVISION DESCRIPTION | DATE | NO. | BY

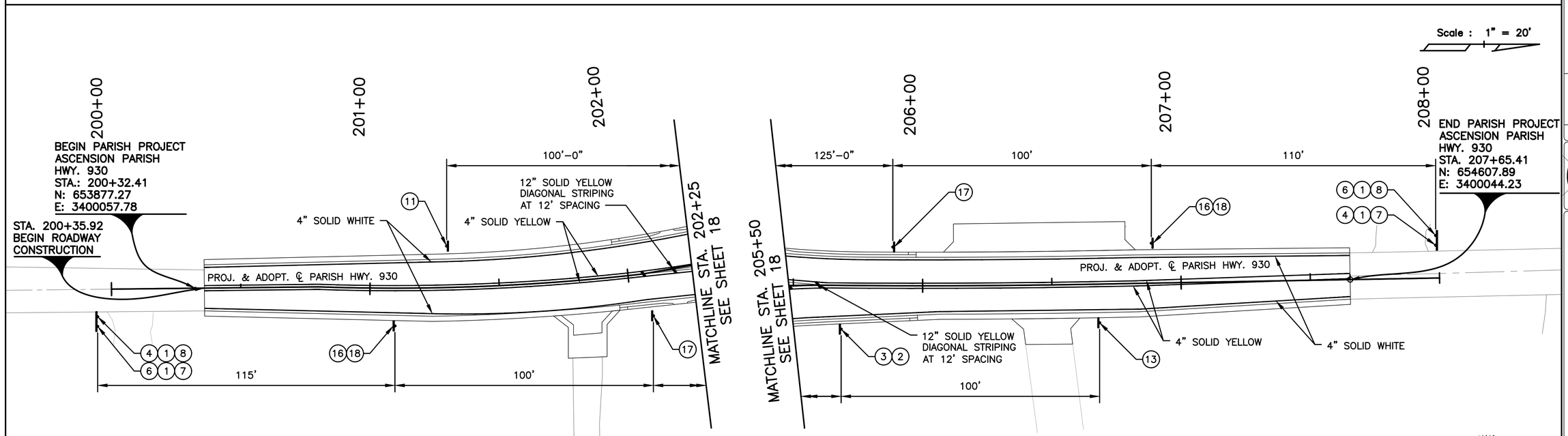
STRIPING & SIGNING LAYOUT

HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT





STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
10/18/24

SHEET NUMBER	19
PARISH	ASCENSION
CITY	GONZALES, LA
PROJECT	MA-18-11
DESIGNED	ANB
CHECKED	AMG
DETAILED	RPO
CHECKED	
DATE	JULY 2024
SHEET	2 OF 2

REVISION DESCRIPTION | BY | DATE | NO.

STRIPING & SIGNING LAYOUT
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT

SIGNS

	SIGN #	MUTCD #	DESCRIPTION	SIZE	SQ. FT.	QUANTITY	TOTAL SQ. FT.
	(1)	D3-1	STREET NAME (1 LINE) (Ascen. Parish Hwy 929)	24 x 24	4.00	8	32.00
	(2)	D3-1	STREET NAME (1 LINE) (Ascen. Parish Hwy 930)	24 x 24	4.00	8	32.00
	(3)	M3-1	CARDINAL DIRECTION (NORTH)	24 x 12	2.00	4	8.00
	(4)	M3-2	CARDINAL DIRECTION (EAST)	24 x 12	2.00	4	8.00
	(5)	M3-3	CARDINAL DIRECTION (SOUTH)	24 x 12	2.00	4	8.00
	(6)	M3-4	CARDINAL DIRECTION (WEST)	24 x 12	2.00	4	8.00
	(7)	M5-3	ADVANCE TURN ARROW	21 x 15	2.19	4	8.75
	(8)	M6-1	DIRECTIONAL ARROW	21 x 15	2.19	4	8.75
	(9)	M6-2	DIRECTIONAL ARROW	21 x 15	2.19	4	8.75
	(10)	R1-2	YIELD	36 x 36 x 36	3.90	8	31.18
	(11)	R2-1	SPEED LIMIT (35 MPH)	24 x 30	5.00	1	5.00
	(12)	R2-1	SPEED LIMIT (40 MPH)	24 x 30	5.00	2	10.00
	(13)	R2-1	SPEED LIMIT (45 MPH)	24 x 30	5.00	1	5.00
	(14)	R6-1	ONE WAY	36 x 12	3.00	4	12.00
	(15)	R6-4	ROUNDABOUT DIRECTIONAL (2 CHEVRONS)	30 x 24	5.00	4	20.00
	(16)	W2-6	INTERSECTION WARNING	30 x 30	6.25	4	25.00
	(17)	W3-2	ADVANCED TRAFFIC CONTROL	30 x 30	6.25	4	25.00
	(18)	W13-1P	ADVISORY SPEED (PLAQUE)	18 x 18	2.25	4	9.00
*	(19)	OM3-R	OBJECT MARKER (RIGHT)	12 x 12	3.0000	1	3.00
					TOTALS	77	267.43

* FOR OBJECT MARKER INSTALLATION DETAIL SEE STD. PLAN HS-03.

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
CIVIL ENGINEERING

10/18/24

SHEET NUMBER 20

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA-18-11

DESIGNED	CHECKED	DETAILED	CHECKED	DATE	SHEET
ANB	AMG	PWL	RPO	JULY 2024	1 OF 1

NO.	DATE	REVISION DESCRIPTION	BY

SIGNAGE SUMMARY SHEET

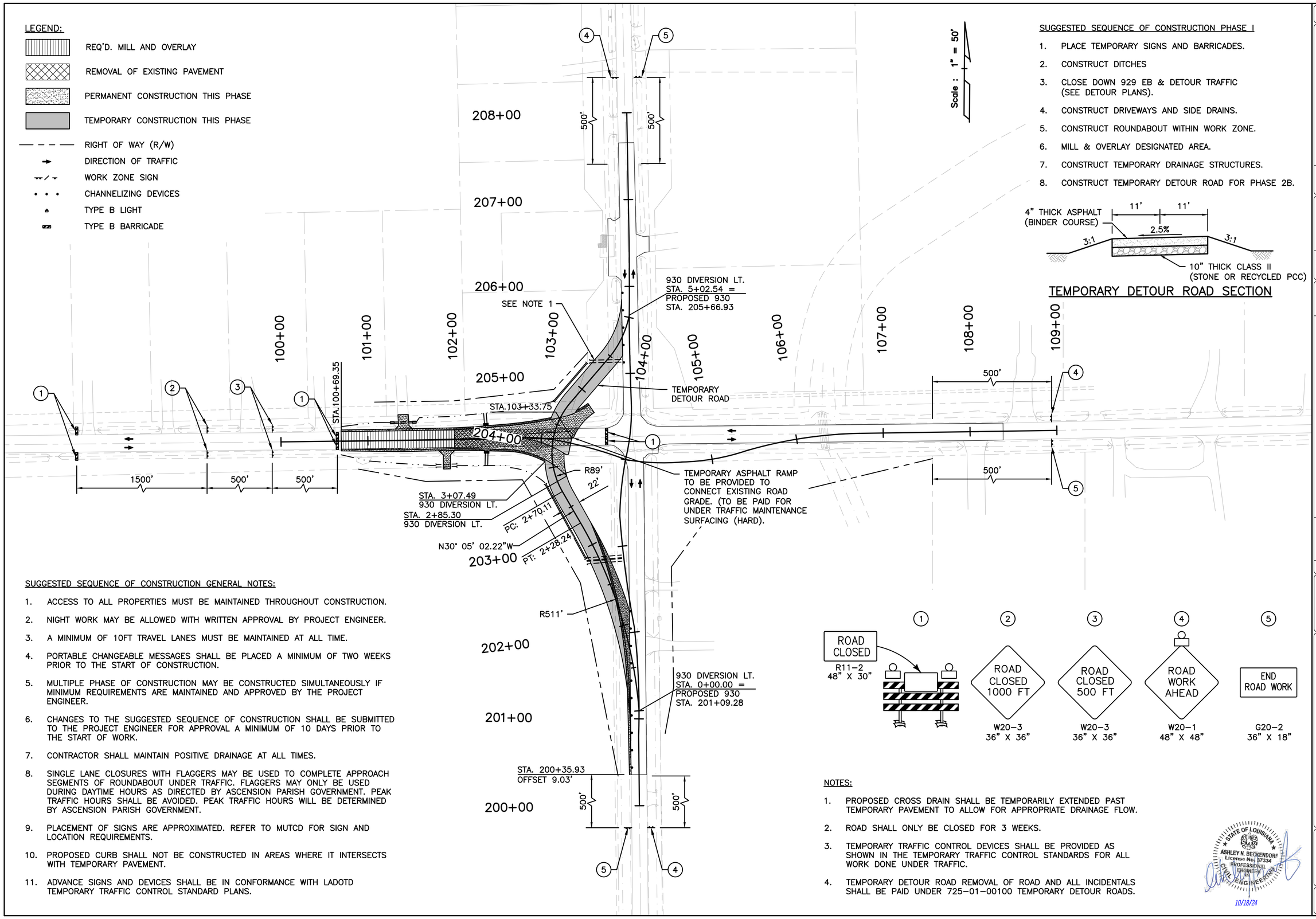
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT

LEGEND:

- REQ'D. MILL AND OVERLAY
- REMOVAL OF EXISTING PAVEMENT
- PERMANENT CONSTRUCTION THIS PHASE
- TEMPORARY CONSTRUCTION THIS PHASE
- RIGHT OF WAY (R/W)
- DIRECTION OF TRAFFIC
- WORK ZONE SIGN
- CHANNELIZING DEVICES
- TYPE B LIGHT
- TYPE B BARRICADE



SUGGESTED SEQUENCE OF CONSTRUCTION PHASE I

1. PLACE TEMPORARY SIGNS AND BARRICADES.
2. CONSTRUCT DITCHES
3. CLOSE DOWN 929 EB & DETOUR TRAFFIC (SEE DETOUR PLANS).
4. CONSTRUCT DRIVEWAYS AND SIDE DRAINS.
5. CONSTRUCT ROUNDABOUT WITHIN WORK ZONE.
6. MILL & OVERLAY DESIGNATED AREA.
7. CONSTRUCT TEMPORARY DRAINAGE STRUCTURES.
8. CONSTRUCT TEMPORARY DETOUR ROAD FOR PHASE 2B.

TEMPORARY DETOUR ROAD SECTION

SUGGESTED SEQUENCE OF CONSTRUCTION GENERAL NOTES:

1. ACCESS TO ALL PROPERTIES MUST BE MAINTAINED THROUGHOUT CONSTRUCTION.
2. NIGHT WORK MAY BE ALLOWED WITH WRITTEN APPROVAL BY PROJECT ENGINEER.
3. A MINIMUM OF 10FT TRAVEL LANES MUST BE MAINTAINED AT ALL TIME.
4. PORTABLE CHANGEABLE MESSAGES SHALL BE PLACED A MINIMUM OF TWO WEEKS PRIOR TO THE START OF CONSTRUCTION.
5. MULTIPLE PHASE OF CONSTRUCTION MAY BE CONSTRUCTED SIMULTANEOUSLY IF MINIMUM REQUIREMENTS ARE MAINTAINED AND APPROVED BY THE PROJECT ENGINEER.
6. CHANGES TO THE SUGGESTED SEQUENCE OF CONSTRUCTION SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR APPROVAL A MINIMUM OF 10 DAYS PRIOR TO THE START OF WORK.
7. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.
8. SINGLE LANE CLOSURES WITH FLAGGERS MAY BE USED TO COMPLETE APPROACH SEGMENTS OF ROUNDABOUT UNDER TRAFFIC. FLAGGERS MAY ONLY BE USED DURING DAYTIME HOURS AS DIRECTED BY ASCENSION PARISH GOVERNMENT. PEAK TRAFFIC HOURS SHALL BE AVOIDED. PEAK TRAFFIC HOURS WILL BE DETERMINED BY ASCENSION PARISH GOVERNMENT.
9. PLACEMENT OF SIGNS ARE APPROXIMATED. REFER TO MUTCD FOR SIGN AND LOCATION REQUIREMENTS.
10. PROPOSED CURB SHALL NOT BE CONSTRUCTED IN AREAS WHERE IT INTERSECTS WITH TEMPORARY PAVEMENT.
11. ADVANCE SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH LADOTD TEMPORARY TRAFFIC CONTROL STANDARD PLANS.

NOTES:

1. PROPOSED CROSS DRAIN SHALL BE TEMPORARILY EXTENDED PAST TEMPORARY PAVEMENT TO ALLOW FOR APPROPRIATE DRAINAGE FLOW.
2. ROAD SHALL ONLY BE CLOSED FOR 3 WEEKS.
3. TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE PROVIDED AS SHOWN IN THE TEMPORARY TRAFFIC CONTROL STANDARDS FOR ALL WORK DONE UNDER TRAFFIC.
4. TEMPORARY DETOUR ROAD REMOVAL OF ROAD AND ALL INCIDENTALS SHALL BE PAID UNDER 725-01-00100 TEMPORARY DETOUR ROADS.

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
10/18/24

SHEET NUMBER 21

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA-18-11

DESIGNED	CHECKED	DETAILED	CHECKED	DATE	SHEET
ANB	AMG	PML	RPO	JULY 2024	1 OF 5

NO.	DATE	REVISION DESCRIPTION	BY

SUGGESTED SEQUENCE OF CONSTRUCTION PHASE 1

HWY. 929 & HWY. 930 ROUNDABOUT

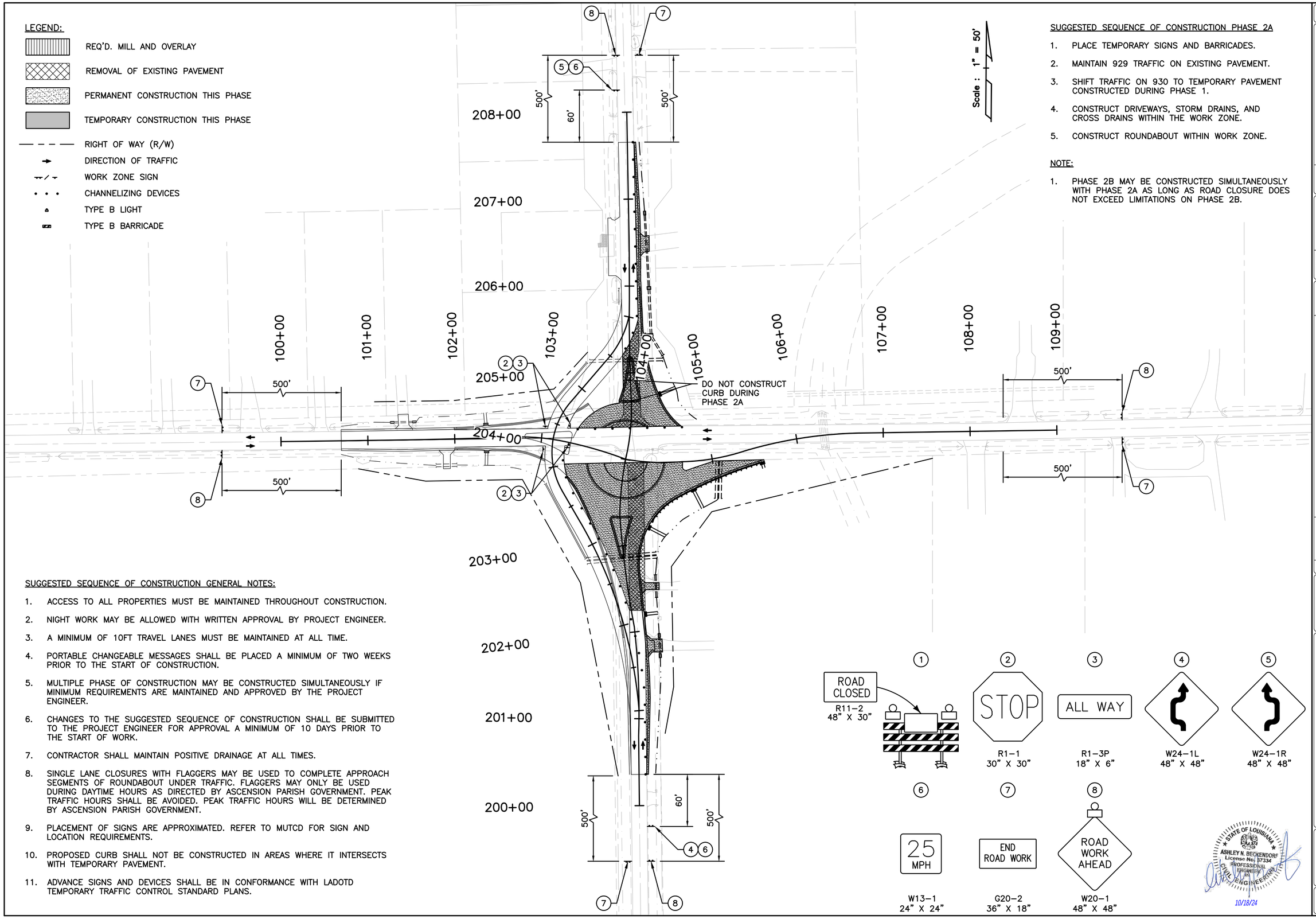
MOVE ASCENSION

VOLKERT

LEGEND:

- REQ'D. MILL AND OVERLAY
- REMOVAL OF EXISTING PAVEMENT
- PERMANENT CONSTRUCTION THIS PHASE
- TEMPORARY CONSTRUCTION THIS PHASE
- RIGHT OF WAY (R/W)
- DIRECTION OF TRAFFIC
- WORK ZONE SIGN
- CHANNELIZING DEVICES
- TYPE B LIGHT
- TYPE B BARRICADE

Scale : 1" = 50'



SUGGESTED SEQUENCE OF CONSTRUCTION PHASE 2A

1. PLACE TEMPORARY SIGNS AND BARRICADES.
2. MAINTAIN 929 TRAFFIC ON EXISTING PAVEMENT.
3. SHIFT TRAFFIC ON 930 TO TEMPORARY PAVEMENT CONSTRUCTED DURING PHASE 1.
4. CONSTRUCT DRIVEWAYS, STORM DRAINS, AND CROSS DRAINS WITHIN THE WORK ZONE.
5. CONSTRUCT ROUNDABOUT WITHIN WORK ZONE.

NOTE:

1. PHASE 2B MAY BE CONSTRUCTED SIMULTANEOUSLY WITH PHASE 2A AS LONG AS ROAD CLOSURE DOES NOT EXCEED LIMITATIONS ON PHASE 2B.

SUGGESTED SEQUENCE OF CONSTRUCTION GENERAL NOTES:

1. ACCESS TO ALL PROPERTIES MUST BE MAINTAINED THROUGHOUT CONSTRUCTION.
2. NIGHT WORK MAY BE ALLOWED WITH WRITTEN APPROVAL BY PROJECT ENGINEER.
3. A MINIMUM OF 10FT TRAVEL LANES MUST BE MAINTAINED AT ALL TIME.
4. PORTABLE CHANGEABLE MESSAGES SHALL BE PLACED A MINIMUM OF TWO WEEKS PRIOR TO THE START OF CONSTRUCTION.
5. MULTIPLE PHASE OF CONSTRUCTION MAY BE CONSTRUCTED SIMULTANEOUSLY IF MINIMUM REQUIREMENTS ARE MAINTAINED AND APPROVED BY THE PROJECT ENGINEER.
6. CHANGES TO THE SUGGESTED SEQUENCE OF CONSTRUCTION SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR APPROVAL A MINIMUM OF 10 DAYS PRIOR TO THE START OF WORK.
7. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.
8. SINGLE LANE CLOSURES WITH FLAGGERS MAY BE USED TO COMPLETE APPROACH SEGMENTS OF ROUNDABOUT UNDER TRAFFIC. FLAGGERS MAY ONLY BE USED DURING DAYTIME HOURS AS DIRECTED BY ASCENSION PARISH GOVERNMENT. PEAK TRAFFIC HOURS SHALL BE AVOIDED. PEAK TRAFFIC HOURS WILL BE DETERMINED BY ASCENSION PARISH GOVERNMENT.
9. PLACEMENT OF SIGNS ARE APPROXIMATED. REFER TO MUTCD FOR SIGN AND LOCATION REQUIREMENTS.
10. PROPOSED CURB SHALL NOT BE CONSTRUCTED IN AREAS WHERE IT INTERSECTS WITH TEMPORARY PAVEMENT.
11. ADVANCE SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH LADOTD TEMPORARY TRAFFIC CONTROL STANDARD PLANS.

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
10/18/24

SHEET NUMBER	22
PARISH	ASCENSION
CITY	GONZALES, LA
PROJECT	MA-18-11
DESIGNED / CHECKED	ANB / AMG
DETAILED / CHECKED	PML / RPO
DATE / SHEET	JULY 2024 / 2 OF 5

NO.	DATE	REVISION DESCRIPTION	BY

SUGGESTED SEQUENCE OF CONSTRUCTION PHASE 2A
HWY. 929 & HWY. 930 ROUNDABOUT

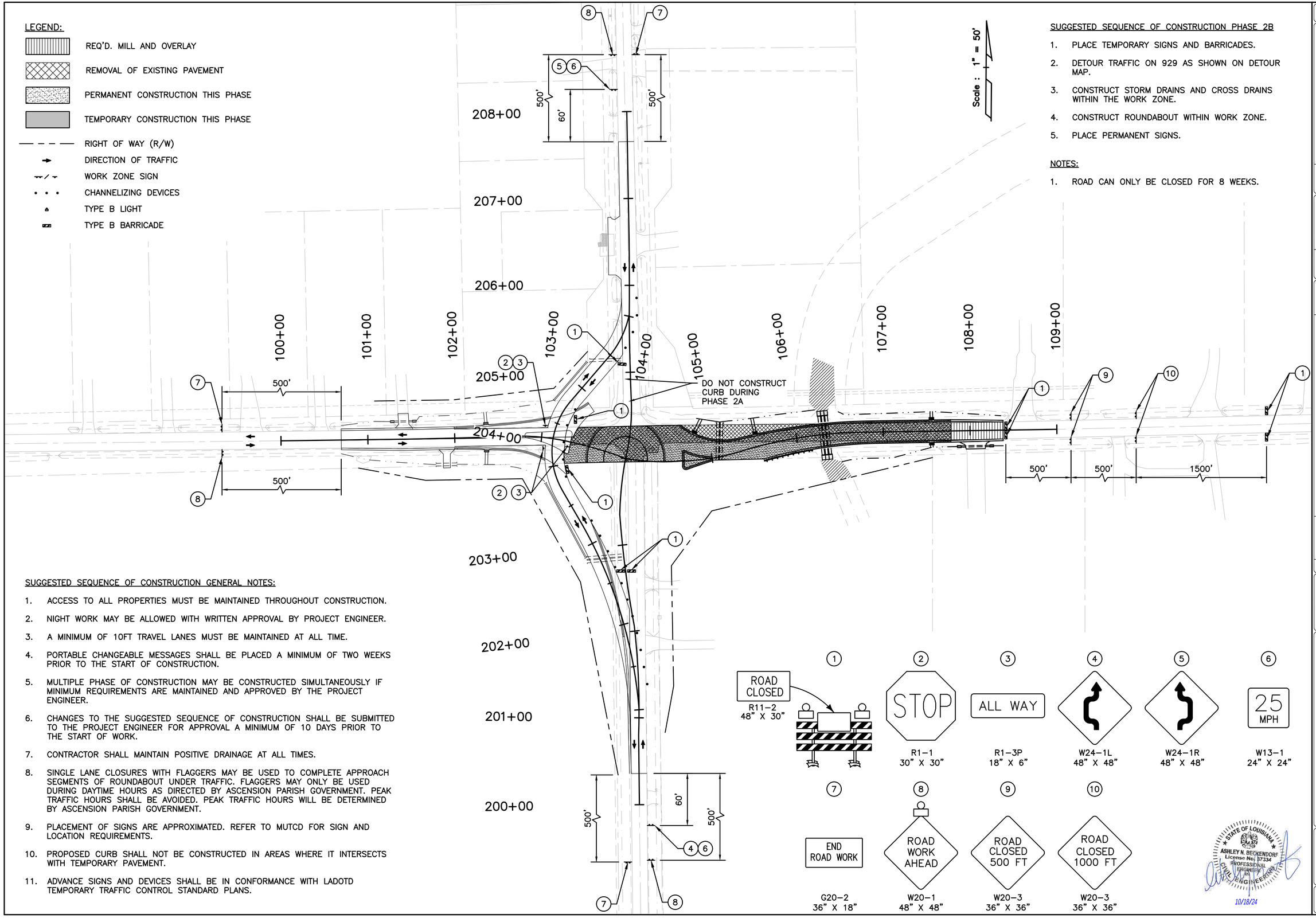
MOVE ASCENSION

VOLKERT

LEGEND:

- REQ'D. MILL AND OVERLAY
- REMOVAL OF EXISTING PAVEMENT
- PERMANENT CONSTRUCTION THIS PHASE
- TEMPORARY CONSTRUCTION THIS PHASE
- RIGHT OF WAY (R/W)
- DIRECTION OF TRAFFIC
- WORK ZONE SIGN
- CHANNELIZING DEVICES
- TYPE B LIGHT
- TYPE B BARRICADE

Scale : 1" = 50'



SUGGESTED SEQUENCE OF CONSTRUCTION PHASE 2B

1. PLACE TEMPORARY SIGNS AND BARRICADES.
2. DETOUR TRAFFIC ON 929 AS SHOWN ON DETOUR MAP.
3. CONSTRUCT STORM DRAINS AND CROSS DRAINS WITHIN THE WORK ZONE.
4. CONSTRUCT ROUNDABOUT WITHIN WORK ZONE.
5. PLACE PERMANENT SIGNS.

NOTES:

1. ROAD CAN ONLY BE CLOSED FOR 8 WEEKS.

SUGGESTED SEQUENCE OF CONSTRUCTION GENERAL NOTES:

1. ACCESS TO ALL PROPERTIES MUST BE MAINTAINED THROUGHOUT CONSTRUCTION.
2. NIGHT WORK MAY BE ALLOWED WITH WRITTEN APPROVAL BY PROJECT ENGINEER.
3. A MINIMUM OF 10FT TRAVEL LANES MUST BE MAINTAINED AT ALL TIME.
4. PORTABLE CHANGEABLE MESSAGES SHALL BE PLACED A MINIMUM OF TWO WEEKS PRIOR TO THE START OF CONSTRUCTION.
5. MULTIPLE PHASE OF CONSTRUCTION MAY BE CONSTRUCTED SIMULTANEOUSLY IF MINIMUM REQUIREMENTS ARE MAINTAINED AND APPROVED BY THE PROJECT ENGINEER.
6. CHANGES TO THE SUGGESTED SEQUENCE OF CONSTRUCTION SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR APPROVAL A MINIMUM OF 10 DAYS PRIOR TO THE START OF WORK.
7. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.
8. SINGLE LANE CLOSURES WITH FLAGGERS MAY BE USED TO COMPLETE APPROACH SEGMENTS OF ROUNDABOUT UNDER TRAFFIC. FLAGGERS MAY ONLY BE USED DURING DAYTIME HOURS AS DIRECTED BY ASCENSION PARISH GOVERNMENT. PEAK TRAFFIC HOURS SHALL BE AVOIDED. PEAK TRAFFIC HOURS WILL BE DETERMINED BY ASCENSION PARISH GOVERNMENT.
9. PLACEMENT OF SIGNS ARE APPROXIMATED. REFER TO MUTCD FOR SIGN AND LOCATION REQUIREMENTS.
10. PROPOSED CURB SHALL NOT BE CONSTRUCTED IN AREAS WHERE IT INTERSECTS WITH TEMPORARY PAVEMENT.
11. ADVANCE SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH LADOTD TEMPORARY TRAFFIC CONTROL STANDARD PLANS.

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/18/24

SHEET NUMBER	22a
PARISH	ASCENSION
CITY	GONZALES, LA
PROJECT	MA-18-11
DESIGNED / CHECKED	ANB / AMG
DETAILED / CHECKED	PML / RPO
DATE / SHEET	JULY 2024 / 3 OF 5

REVISION DESCRIPTION | BY | DATE | NO.

SUGGESTED SEQUENCE OF CONSTRUCTION PHASE 2B

HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT

LEGEND:

- REQ'D. MILL AND OVERLAY
- REMOVAL OF EXISTING PAVEMENT
- PERMANENT CONSTRUCTION THIS PHASE
- TEMPORARY CONSTRUCTION THIS PHASE
- RIGHT OF WAY (R/W)
- DIRECTION OF TRAFFIC
- WORK ZONE SIGN
- CHANNELIZING DEVICES
- TYPE B LIGHT
- TYPE B BARRICADE

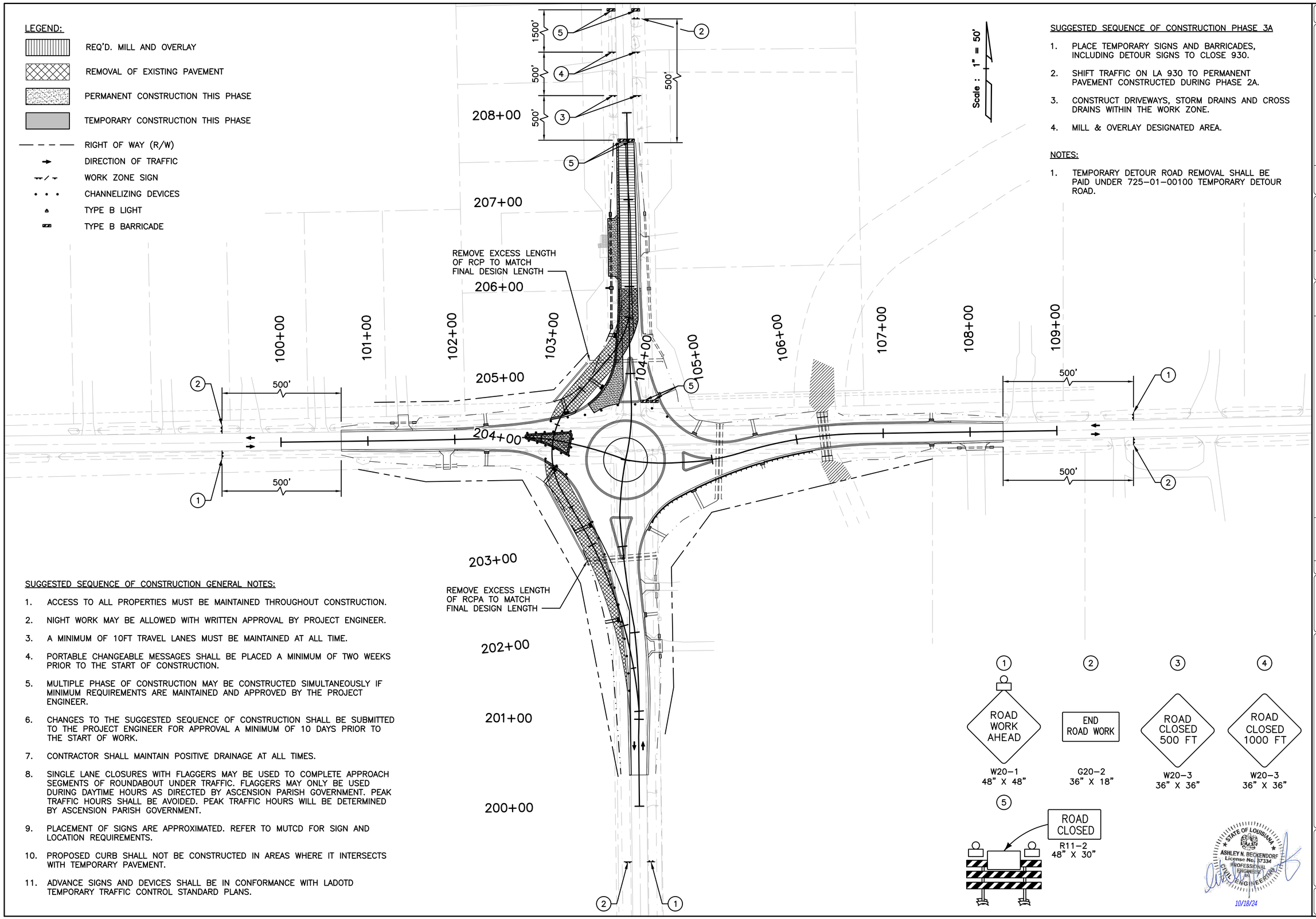
Scale : 1" = 50'

SUGGESTED SEQUENCE OF CONSTRUCTION PHASE 3A

1. PLACE TEMPORARY SIGNS AND BARRICADES, INCLUDING DETOUR SIGNS TO CLOSE 930.
2. SHIFT TRAFFIC ON LA 930 TO PERMANENT PAVEMENT CONSTRUCTED DURING PHASE 2A.
3. CONSTRUCT DRIVEWAYS, STORM DRAINS AND CROSS DRAINS WITHIN THE WORK ZONE.
4. MILL & OVERLAY DESIGNATED AREA.

NOTES:

1. TEMPORARY DETOUR ROAD REMOVAL SHALL BE PAID UNDER 725-01-00100 TEMPORARY DETOUR ROAD.



SUGGESTED SEQUENCE OF CONSTRUCTION GENERAL NOTES:

1. ACCESS TO ALL PROPERTIES MUST BE MAINTAINED THROUGHOUT CONSTRUCTION.
2. NIGHT WORK MAY BE ALLOWED WITH WRITTEN APPROVAL BY PROJECT ENGINEER.
3. A MINIMUM OF 10FT TRAVEL LANES MUST BE MAINTAINED AT ALL TIME.
4. PORTABLE CHANGEABLE MESSAGES SHALL BE PLACED A MINIMUM OF TWO WEEKS PRIOR TO THE START OF CONSTRUCTION.
5. MULTIPLE PHASE OF CONSTRUCTION MAY BE CONSTRUCTED SIMULTANEOUSLY IF MINIMUM REQUIREMENTS ARE MAINTAINED AND APPROVED BY THE PROJECT ENGINEER.
6. CHANGES TO THE SUGGESTED SEQUENCE OF CONSTRUCTION SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR APPROVAL A MINIMUM OF 10 DAYS PRIOR TO THE START OF WORK.
7. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.
8. SINGLE LANE CLOSURES WITH FLAGGERS MAY BE USED TO COMPLETE APPROACH SEGMENTS OF ROUNDABOUT UNDER TRAFFIC. FLAGGERS MAY ONLY BE USED DURING DAYTIME HOURS AS DIRECTED BY ASCENSION PARISH GOVERNMENT. PEAK TRAFFIC HOURS SHALL BE AVOIDED. PEAK TRAFFIC HOURS WILL BE DETERMINED BY ASCENSION PARISH GOVERNMENT.
9. PLACEMENT OF SIGNS ARE APPROXIMATED. REFER TO MUTCD FOR SIGN AND LOCATION REQUIREMENTS.
10. PROPOSED CURB SHALL NOT BE CONSTRUCTED IN AREAS WHERE IT INTERSECTS WITH TEMPORARY PAVEMENT.
11. ADVANCE SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH LADOTD TEMPORARY TRAFFIC CONTROL STANDARD PLANS.

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/18/24

SHEET NUMBER	23
PARISH	ASCENSION
CITY	GONZALES, LA
PROJECT	MA-18-11
DESIGNED / CHECKED	ANB / AMG
DETAILED / CHECKED	PML / RPO
DATE / SHEET	JULY 2024 / 4 OF 5

REVISION DESCRIPTION | BY | DATE | NO.

SUGGESTED SEQUENCE OF CONSTRUCTION PHASE 3

HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT

LEGEND:

- REQ'D. MILL AND OVERLAY
- REMOVAL OF EXISTING PAVEMENT
- PERMANENT CONSTRUCTION THIS PHASE
- TEMPORARY CONSTRUCTION THIS PHASE
- RIGHT OF WAY (R/W)
- DIRECTION OF TRAFFIC
- WORK ZONE SIGN
- CHANNELIZING DEVICES
- TYPE B LIGHT
- TYPE B BARRICADE

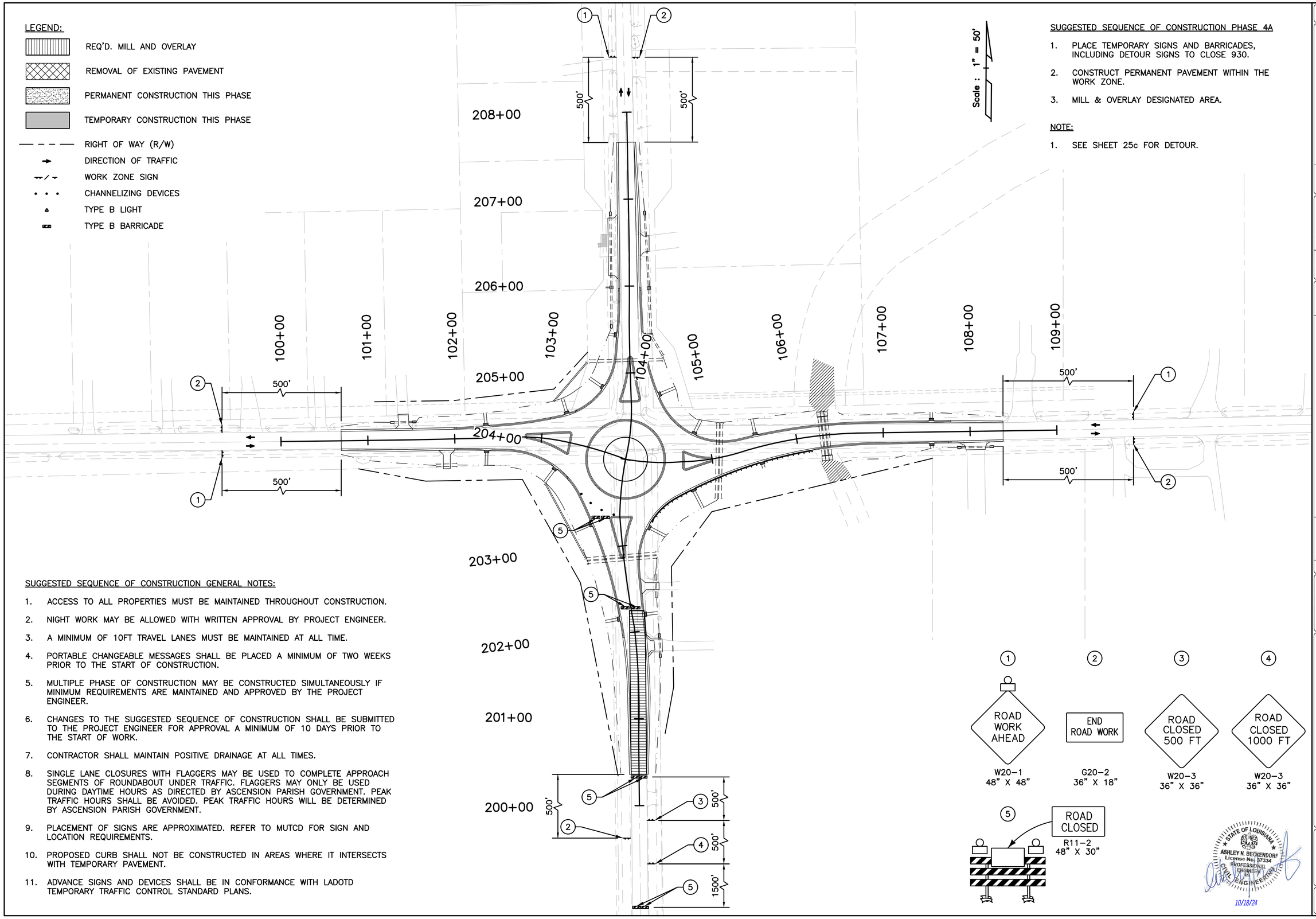
Scale : 1" = 50'

SUGGESTED SEQUENCE OF CONSTRUCTION PHASE 4A

1. PLACE TEMPORARY SIGNS AND BARRICADES, INCLUDING DETOUR SIGNS TO CLOSE 930.
2. CONSTRUCT PERMANENT PAVEMENT WITHIN THE WORK ZONE.
3. MILL & OVERLAY DESIGNATED AREA.

NOTE:

1. SEE SHEET 25c FOR DETOUR.



SUGGESTED SEQUENCE OF CONSTRUCTION GENERAL NOTES:

1. ACCESS TO ALL PROPERTIES MUST BE MAINTAINED THROUGHOUT CONSTRUCTION.
2. NIGHT WORK MAY BE ALLOWED WITH WRITTEN APPROVAL BY PROJECT ENGINEER.
3. A MINIMUM OF 10FT TRAVEL LANES MUST BE MAINTAINED AT ALL TIME.
4. PORTABLE CHANGEABLE MESSAGES SHALL BE PLACED A MINIMUM OF TWO WEEKS PRIOR TO THE START OF CONSTRUCTION.
5. MULTIPLE PHASE OF CONSTRUCTION MAY BE CONSTRUCTED SIMULTANEOUSLY IF MINIMUM REQUIREMENTS ARE MAINTAINED AND APPROVED BY THE PROJECT ENGINEER.
6. CHANGES TO THE SUGGESTED SEQUENCE OF CONSTRUCTION SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR APPROVAL A MINIMUM OF 10 DAYS PRIOR TO THE START OF WORK.
7. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.
8. SINGLE LANE CLOSURES WITH FLAGGERS MAY BE USED TO COMPLETE APPROACH SEGMENTS OF ROUNDABOUT UNDER TRAFFIC. FLAGGERS MAY ONLY BE USED DURING DAYTIME HOURS AS DIRECTED BY ASCENSION PARISH GOVERNMENT. PEAK TRAFFIC HOURS SHALL BE AVOIDED. PEAK TRAFFIC HOURS WILL BE DETERMINED BY ASCENSION PARISH GOVERNMENT.
9. PLACEMENT OF SIGNS ARE APPROXIMATED. REFER TO MUTCD FOR SIGN AND LOCATION REQUIREMENTS.
10. PROPOSED CURB SHALL NOT BE CONSTRUCTED IN AREAS WHERE IT INTERSECTS WITH TEMPORARY PAVEMENT.
11. ADVANCE SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH LADOTD TEMPORARY TRAFFIC CONTROL STANDARD PLANS.

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/18/24

SHEET NUMBER	24
PARISH	ASCENSION
CITY	GONZALES, LA
PROJECT	MA-18-11
DESIGNED / CHECKED	ANB / AMG
DETAILED / CHECKED	PML / RPO
DATE / SHEET	JULY 2024 / 5 OF 5

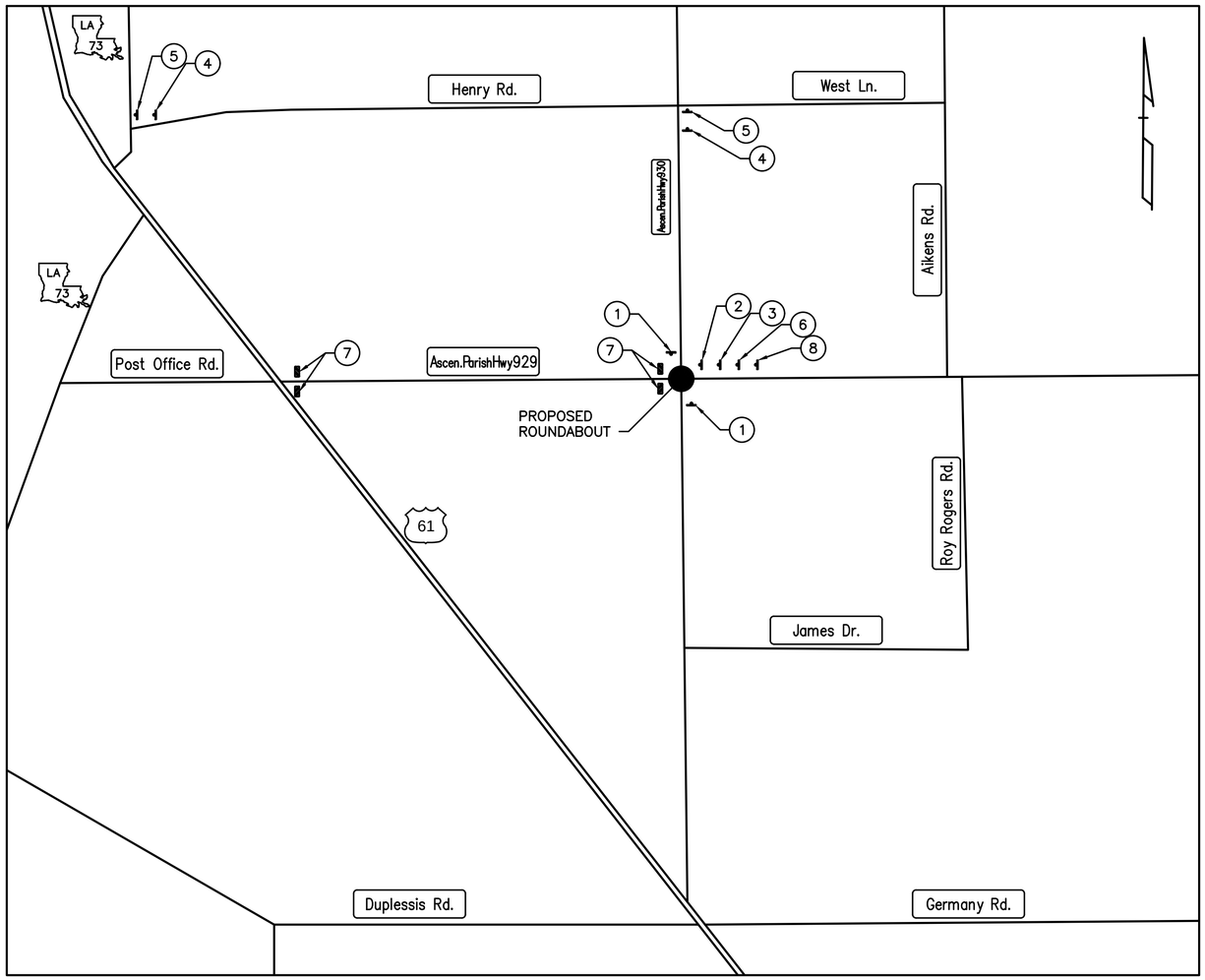
REVISION DESCRIPTION | BY | NO. | DATE

SUGGESTED SEQUENCE OF CONSTRUCTION PHASE 4

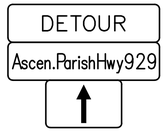
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT



DETOUR MAP
N.T.S.

1


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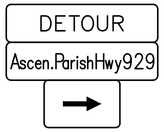
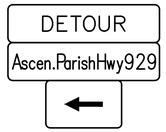


3


4


5


6


7


8


DURATION OF ROAD CLOSURE

LEGEND:

- TYPE III BARRICADE
- TEMPORARY SIGN

NOTES:

1. SIGNS IN THIS DRAWING ARE APPROXIMATED. REFER TO THE MUTCD AND TTC-16 FOR SIZE, SPACING, AND LOCATIONS.
2. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED ON US 61 TO BE DETERMINED BY THE PROJECT ENGINEER.

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
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PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/18/24

SHEET NUMBER 25

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA-18-11

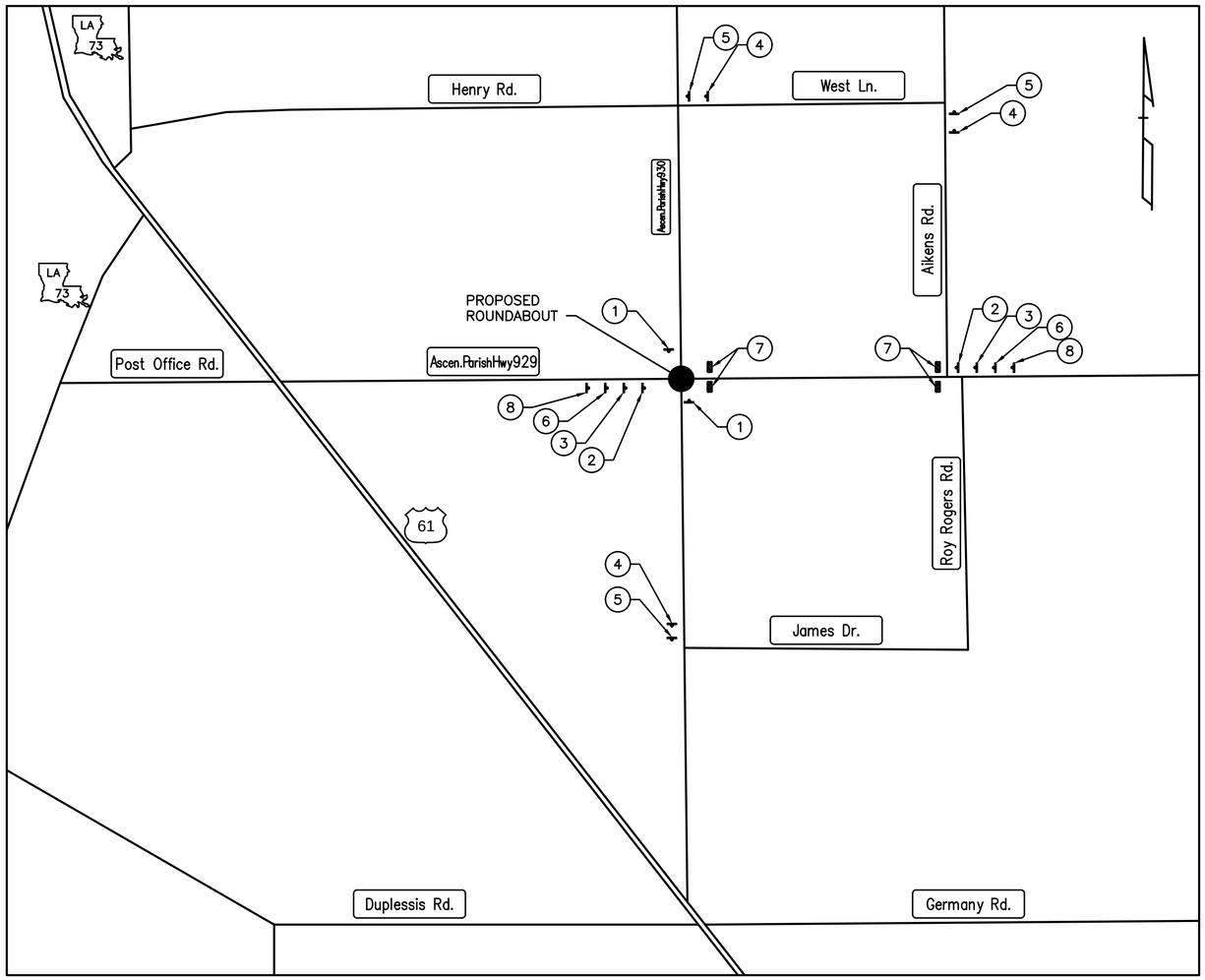
DESIGNED	CHECKED	DETAILED	CHECKED	DATE	SHEET
ANB	AMG	PML	RPO	JULY 2024	1 OF 4

NO.	REVISION DESCRIPTION	BY	DATE

DETOUR MAP AND SIGNING
(PHASE 1)
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT



DETOUR MAP
N.T.S.

1
DETOUR
Ascen.ParishHwy929

2
DETOUR
Ascen.ParishHwy929

3
DETOUR
Ascen.ParishHwy929

4
DETOUR
Ascen.ParishHwy929

5
DETOUR
Ascen.ParishHwy929

6
DETOUR AHEAD

7
ROAD CLOSED TO THRU TRAFFIC
DETOUR

8
LA 929 CLOSED
DURATION OF ROAD CLOSURE

LEGEND:

- TYPE III BARRICADE
- TEMPORARY SIGN

NOTES:

1. SIGNS IN THIS DRAWING ARE APPROXIMATED. REFER TO THE MUTCD AND TTC-16 FOR SIZE, SPACING, AND LOCATIONS.
2. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED ON US 61 TO BE DETERMINED BY THE PROJECT ENGINEER.

STATE OF LOUISIANA
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PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/18/24

SHEET NUMBER 25a

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA-18-11

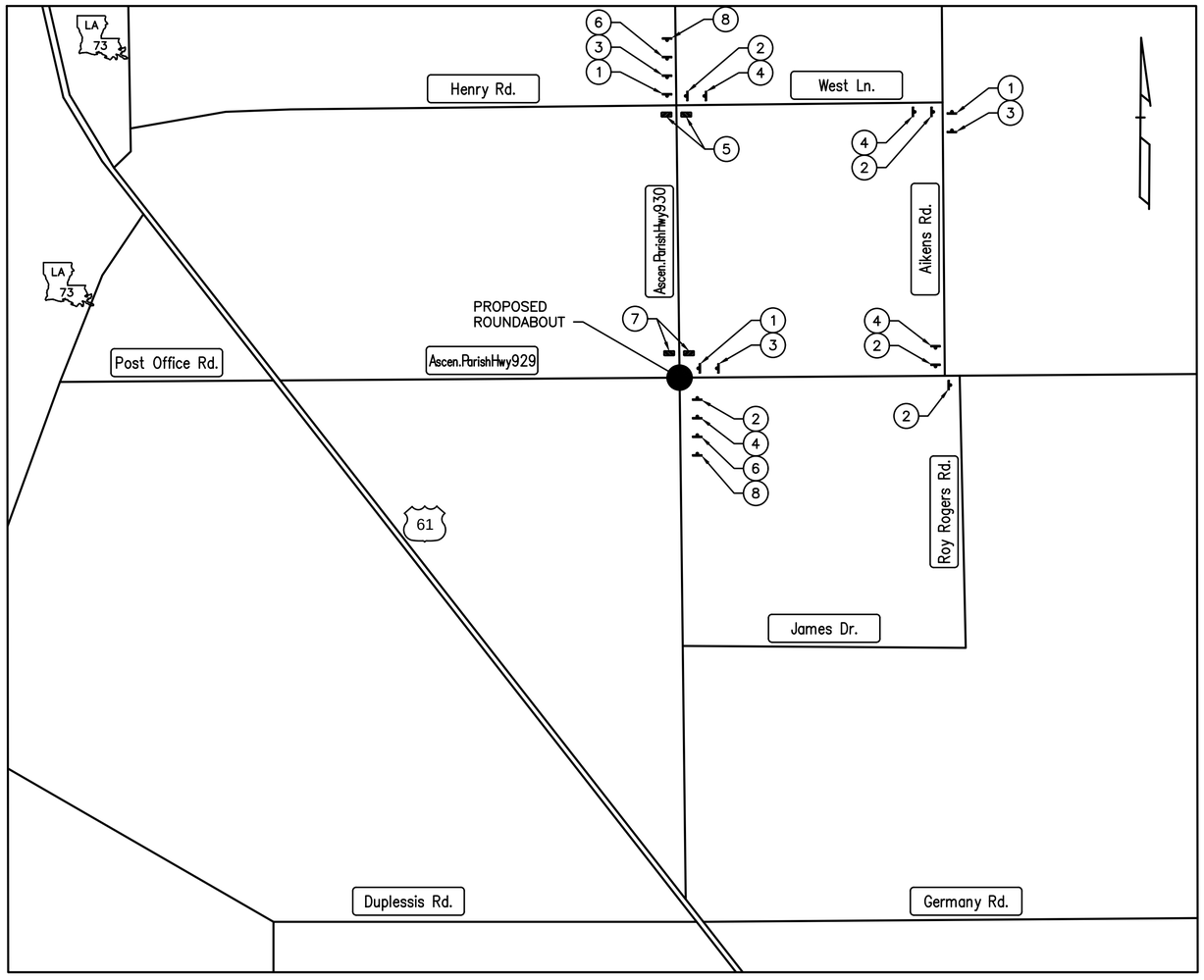
DESIGNED	CHECKED	DETAILED	CHECKED	DATE	SHEET
ANB	AMG	PML	RPO	JULY 2024	2 OF 4

NO.	REVISION DESCRIPTION	BY	DATE

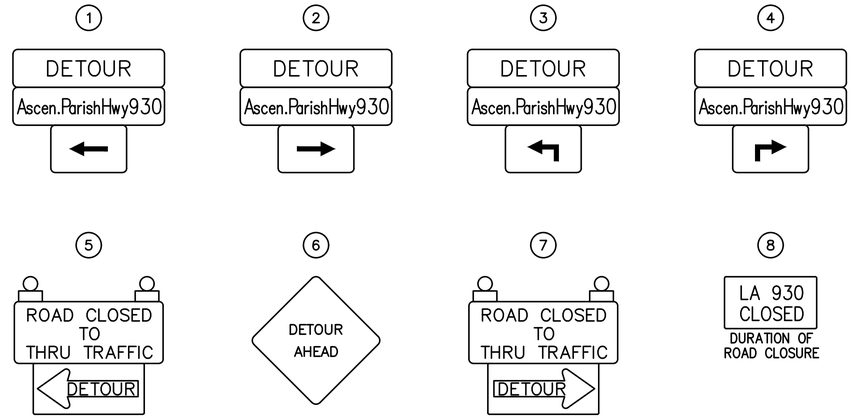
DETOUR MAP AND SIGNING
(PHASE 2)
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT



DETOUR MAP
N.T.S.



LEGEND:

- TYPE III BARRICADE
- TEMPORARY SIGN

NOTES:

1. SIGNS IN THIS DRAWING ARE APPROXIMATED. REFER TO THE MUTCD AND TTC–16 FOR SIZE, SPACING, AND LOCATIONS.
2. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED ON US 61 TO BE DETERMINED BY THE PROJECT ENGINEER.

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
CIVIL ENGINEER
10/18/24

SHEET NUMBER 25b

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA–18–11

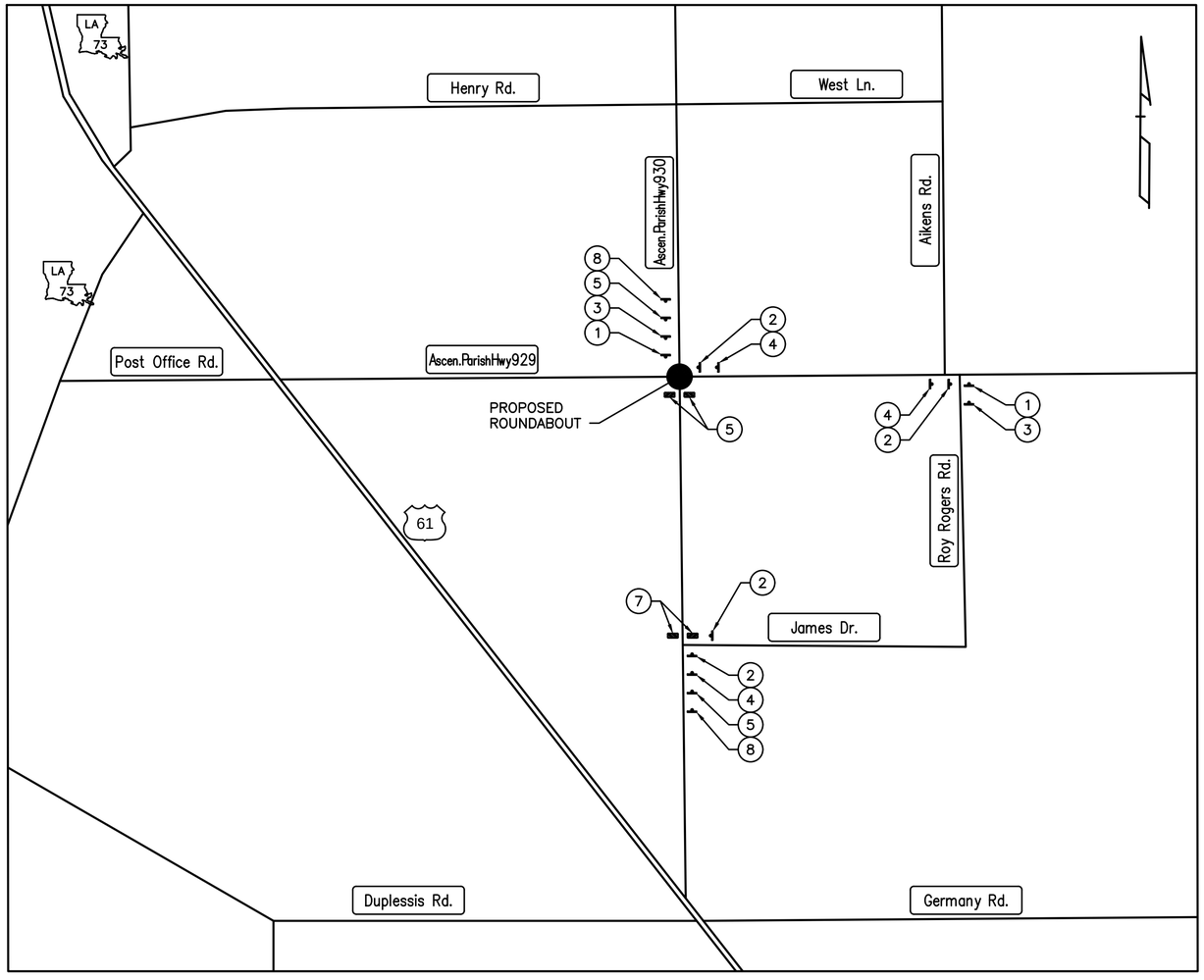
DESIGNED	CHECKED	DETAILED	CHECKED	DATE	SHEET
ANB	AMG	PML	RPO	JULY 2024	3 OF 4

NO.	DATE	REVISION DESCRIPTION	BY

DETOUR MAP AND SIGNING
(PHASE 3)
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT



DETOUR MAP
N.T.S.

1
DETOUR
Ascen.ParishHwy930

2
DETOUR
Ascen.ParishHwy930

3
DETOUR
Ascen.ParishHwy930

4
DETOUR
Ascen.ParishHwy930

5
ROAD CLOSED TO THRU TRAFFIC
DETOUR

6
DETOUR AHEAD

7
ROAD CLOSED TO THRU TRAFFIC
DETOUR

8
LA 930 CLOSED
DURATION OF ROAD CLOSURE

LEGEND:

- TYPE III BARRICADE
- TEMPORARY SIGN

NOTES:

1. SIGNS IN THIS DRAWING ARE APPROXIMATED. REFER TO THE MUTCD AND TTC-16 FOR SIZE, SPACING, AND LOCATIONS.
2. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED ON US 61 TO BE DETERMINED BY THE PROJECT ENGINEER.

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
10/18/24

SHEET NUMBER 25c

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA-18-11

DESIGNED	CHECKED	DETAILED	CHECKED	DATE	SHEET
ANB	AMG	PML	RPO	JULY 2024	4 OF 4

NO.	DATE	BY	REVISION DESCRIPTION

DETOUR MAP AND SIGNING
(PHASE 4)
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT

LEGEND: (PROPOSED)

- DITCH
- SF — TEMPORARY SILT FENCING
- REQ'D. SIDE DRAIN PIPE
- TEMPORARY INLET PROTECTION (SILT FENCING)
- REQ'D. CHECK DAM (STONE)
- REQ'D. CHECK DAM (HAY)

Scale : 1" = 40'

BEGIN PARISH PROJECT
ASCENSION PARISH
HWY. 930
STA.: 207+65.41
N: 654607.89
E: 3400044.23

INLET PROTECTION

BEGIN PARISH PROJECT
ASCENSION PARISH
HWY. 929
STA.: 100+64.03
N: 654264.45
E: 3399709.69

BEGIN PARISH PROJECT
ASCENSION PARISH
HWY. 929
STA.: 108+38.00
N: 654275.91
E: 3400476.68

STA. 100+69.35
BEGIN ROADWAY
CONSTRUCTION

BEGIN PARISH PROJECT
ASCENSION PARISH
HWY. 930
STA.: 200+32.41
N: 653877.27
E: 3400057.77

STA. 200+35.92
BEGIN ROADWAY
CONSTRUCTION

NOTE:

1. REFER TO EC-01 FOR DETAILS ON PLACEMENT OF ALL TEMPORARY EROSION CONTROL ITEMS INCLUDING HAY BALES WITH IN THE DITCHES.

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
10/18/24

SHEET NUMBER	26
PARISH	ASCENSION
CITY	GONZALES, LA
PROJECT	MA-18-11
DESIGNED	ANB
CHECKED	AMG
DETAILED	PWL
CHECKED	RPO
DATE	JULY 2024
SHEET	1 OF 1

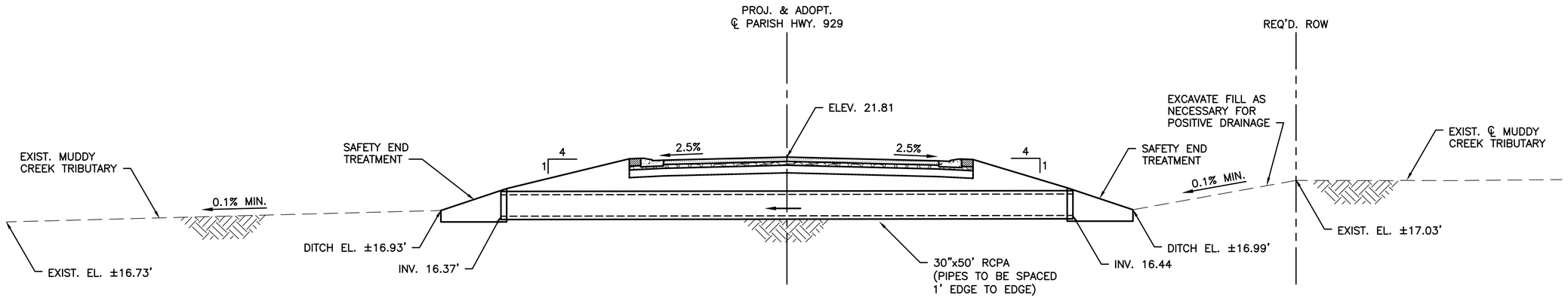
REVISION DESCRIPTION | DATE | NO. | BY

EROSION CONTROL

HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT



CULVERT SECTION
SCALE: 1" = 5'
(STA. 106+34)

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
10/18/24

SHEET NUMBER	27
PARISH	ASCENSION
CITY	GONZALES, LA
PROJECT	MA-18-11
DESIGNED	ANB
CHECKED	AMG
DETAILED	PML
CHECKED	RPO
DATE	JULY 2024
SHEET	1 OF 1

NO.	DATE	REVISION DESCRIPTION	BY

CULVERT SECTIONS

HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT

GENERAL REQUIREMENTS:

SCOPE OF WORK:

THE WORK COVERED BY THIS SECTION SHALL INCLUDE FURNISHING, INSTALLING, AND PLACING INTO SATISFACTORY OPERATING CONDITION A NEW LIGHTING SYSTEM AS INDICATED IN THE PLANS, PLAN DETAILS, SPECIFICATIONS, OR AS DIRECTED BY THE PROJECT ENGINEER. THE CONTRACTOR SHALL MAKE ANY NECESSARY MODIFICATIONS OR FABRICATIONS REQUIRED FOR A COMPLETE, OPERATIONAL, AND SAFE LIGHTING SYSTEM. EVERY FITTING, MINOR DETAIL, OR FEATURE MAY NOT BE SHOWN OR DESCRIBED. THE CONTRACTOR PERFORMING THE WORK IS ASSUMED TO BE SKILLED IN THE TRADE, CAPABLE OF UNDERSTANDING THE INTENT OF THE PLANS AND SPECIFICATIONS, AND CONSTRUCTING THE LIGHTING SYSTEM IN ACCORDANCE WITH THE BEST PRACTICE OF THE TRADE.

A. PLANS AND SPECIFICATIONS

THESE PLANS AND SPECIFICATIONS ARE SUPPLEMENTAL TO THE 2016 EDITION OF LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES (HEREINAFTER CALLED THE STANDARD SPECIFICATIONS), APPLICABLE CODES, MANUFACTURER'S INSTRUCTIONS AND BEST PREVAILING CONSTRUCTION TRADE PRACTICES. THE SPECIFICATIONS AND PLANS DO NOT NECESSARILY INCLUDE OR DEFINE EVERYTHING REQUIRED FOR A COMPLETE, OPERATING, AND SAFE LIGHTING SYSTEM. THE CONTRACTOR IS EXPECTED TO POSSESS SUFFICIENT EXPERIENCE AND TECHNICAL KNOWLEDGE TO COMPLETE THE WORK IN A SAFE MANNER.

B. EQUIPMENT AND MATERIALS

EQUIPMENT AND MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 822.04 OF THE STANDARD SPECIFICATIONS. EQUIPMENT AND MATERIAL SHALL BE SUITABLE FOR THE INTENDED USE AND SHALL BE FURNISHED WITH ALL NECESSARY HARDWARE AND COMPONENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MODIFICATIONS OR FABRICATIONS NECESSARY FOR PROPER INSTALLATION AND OPERATION OF EQUIPMENT. UNLESS SPECIFIED OTHERWISE, ALL EQUIPMENT AND MATERIAL SHALL BE NEW AND ALL LIKE EQUIPMENT AND MATERIAL SHALL BE OF THE SAME MANUFACTURER. REFERENCE TO A SPECIFIC MANUFACTURER'S NAME AND/OR CATALOG/MODEL NUMBER IS INTENDED TO DENOTE THE QUALITY OF THE EQUIPMENT OR MATERIAL AND NOT TO SPECIFICALLY EXCLUDE OTHER ACCEPTABLE PRODUCTS. DESCRIPTIVE SPECIFICATIONS, PLANS, AND SYSTEM COMPATIBILITY SHALL GOVERN OVER SPECIFIED MANUFACTURER'S NAMES AND CATALOG/MODEL NUMBERS. THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT CATALOG/MODEL NUMBERS, AND AVAILABILITY WITH SUPPLIERS, AND COORDINATE WITH ALL OTHER SUB-CONTRACTORS.

C. EXISTING CONDITIONS

THE CONTRACTOR SHALL THOROUGHLY INSPECT THE SITE AND SURROUNDING AREA FOR EVIDENCE OF UNDERGROUND FACILITIES AND CONTACT COMPANIES OR AGENCIES LIKELY TO HAVE UNDERGROUND FACILITIES IN THE VICINITY OF THE PROJECT BEFORE DIGGING OR TRENCHING. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGES TO EXISTING UNDERGROUND FACILITIES CAUSED BY CONTRACTOR OPERATIONS. WHEN NEW EQUIPMENT IS INSTALLED REPLACING EXISTING EQUIPMENT, THE EXISTING EQUIPMENT AND MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

D. COORDINATION

THE CONTRACTOR SHALL COORDINATE ALL WORK TO AVOID INTERFERENCE AND CONFLICTS.

E. VERIFICATION

THE CONTRACTOR SHALL VERIFY MOUNTING SPACE, EQUIPMENT DIMENSIONS, INSTALLATION REQUIREMENTS, AND ELECTRICAL CIRCUIT REQUIREMENTS OF ALL EQUIPMENT BEING SERVED PRIOR TO ORDERING ANY EQUIPMENT AND MATERIAL. WHERE CIRCUITS ARE TO SERVE SPECIFIC EQUIPMENT OR FEEDERS, THE CONTRACTOR SHALL VERIFY THE ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL CONNECTIONS PRIOR TO THE INSTALLATION OF THE SERVICE TO THE EQUIPMENT.

F. WARRANTIES AND GUARANTIES

WARRANTIES AND GUARANTEES SHALL BE IN ACCORDANCE WITH SECTION 104.05 "GUARANTEES OF THE CURRENT EDITION OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES."

G. SUBMITTALS

AFTER AWARD OF CONTRACT AND PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SHALL PROVIDE SUBMITTALS IN ACCORDANCE WITH SPEC SECTION 822.06 TO DESIGN ENGINEER FOR APPROVAL. THE SUBMITTALS SHALL BE FOR ALL EQUIPMENT PROPOSED TO BE INSTALLED ON THE PROJECT. FOR EACH NEW (OR REVISED) TRANSMITTAL OF SUBMITTALS TO THE DESIGN ENGINEER, THE CONTRACTOR SHALL PROVIDE CATALOG CUT SHEETS, SHOP DRAWINGS, DESCRIPTIVE DATA, BROCHURES, ETC., FOR ALL ITEMS AND MATERIAL. IN ADDITION, THE PROJECT NUMBER, PROJECT NAME, FABRICATOR/MANUFACTURER'S NAME, AND CONTRACTOR'S COMPANY NAME SHALL BE INCLUDED ON EVERY SHEET IN A STAMPED FORMAT. NOTE: HAND WRITING OR USE OF STICKERS TO PROVIDE THIS INFORMATION IS UNACCEPTABLE. ALL CUT SHEET(S) FOR EACH ITEM SHALL HAVE ALL PERTINENT INFORMATION CLEARLY MARKED TO INDICATE MATERIAL DESCRIPTION, BRAND, STOCK NUMBER, SIZE, MODEL, RATING, MANUFACTURING SPECIFICATIONS, ETC. FOR ROADWAY LIGHTING INSTALLATIONS, THE CONTRACTOR SHALL INCLUDE AS A SUBMITTAL A PHOTOMETRIC REPORT DESCRIBING LIGHT DISTRIBUTION, EFFICIENCY, ZONAL LUMEN OUTPUT, HORIZONTAL ILLUMINANCE, VEILING (GLARE) CALCULATIONS, LUMINARIES AND POLE CHARACTERISTICS, AND A ROADWAY AND/OR INTERSECTION DIAGRAM ILLUSTRATING FOOT-CANDLE LEVELS AT VARIOUS POINTS ALONG EACH ROADWAY SEGMENT. THE CONTRACTOR MAY CONTACT THE DESIGN ENGINEER FOR ASSISTANCE WITH RETRIEVING A CAD DRAWING(S) (IF APPLICABLE) IN ORDER TO ASSIST THE CONTRACTOR WITH PREPARATION OF THE PHOTOMETRIC REPORT. SHOP DRAWINGS AND EQUIPMENT SUBMITTALS SHALL MEASURE EITHER 8½" X 11" OR 22" X 34". EQUIPMENT BROCHURES SHALL BE ORIGINALS WHERE COLORS OR PATTERNS ARE SHOWN. OTHERWISE, ORIGINALS, OR COPIES EQUAL TO ORIGINALS, SHALL BE ACCEPTABLE. ONE (1) SUBMITTAL SET WILL BE RETURNED WITH REQUIRED REVISIONS (IF ANY) NOTED THEREON. AFTER REVISIONS HAVE BEEN MADE, THE CONTRACTOR SHALL RE-SUBMIT AS PREVIOUSLY DESCRIBED. ANY CORRECTIONS AND/OR COMMENTS INDICATED ON SUBMITTALS ARE NOT INTENDED TO RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE CONTRACT DOCUMENTS. APPROVAL OF SUBMITTALS AND DRAWINGS DOES NOT IMPLY THAT THE EQUIPMENT AND MATERIALS DESCRIBED IS COMPLETE, CAN BE CONSTRUCTED OR INSTALLED, WILL OPERATE SUCCESSFULLY, OR WILL COORDINATE WITH EXISTING OR OTHER EQUIPMENT SPECIFIED. THE CONTRACTOR SHALL REMAIN RESPONSIBLE FOR THE FOLLOWING: CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATING AND PERFORMING THE WORK IN A SAFE AND SATISFACTORY MANNER, SATISFACTORY INSTALLATION AND OPERATION OF EQUIPMENT, FURNISHING SHOP DRAWINGS, BROCHURES, AND SAMPLES AS REQUIRED HEREIN. NOTE: NO MATERIAL SHALL BE ORDERED AND NO FABRICATION OR INSTALLATION OF EQUIPMENT SHALL BEGIN UNTIL A RELATED SUBMITTAL HAS BEEN APPROVED BY THE CONSTRUCTION QUALITY CONTROL MANAGER AND A COPY HAS BEEN RECEIVED BY THE PROJECT ENGINEER.

EQUIPMENT TO SUBMIT ON:

THE CONTRACTOR SHALL FURNISH, TO THE DESIGN ENGINEER FOR APPROVAL, BROCHURES, SHOP DRAWINGS, AND MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ALL ELECTRICAL EQUIPMENT LISTED ON SHEET 38 & 39 BEFORE PROCEEDING WITH CONSTRUCTION. THE EQUIPMENT LISTED BELOW MAY NOT INCLUDE ALL MATERIAL THE CONTRACTOR IS TO INSTALL. AT ANY TIME, THE CONSTRUCTION QUALITY CONTROL MANAGER AND/OR PROJECT ENGINEER MAY REQUEST ADDITIONAL EQUIPMENT SUBMITTALS.

NOTE: A STRUCTURAL ENGINEER'S CERTIFICATION SHALL BE REQUIRED ON ALL STRUCTURAL POLE CALCULATIONS AND SHOP DRAWINGS TO INDICATE COMPLIANCE WITH THE PLANS.

BOTH THE DESIGN AND/OR PROJECT ENGINEER RESERVE THE RIGHT TO REQUEST SUBMITTALS ON ITEMS NOT LISTED ABOVE AND TAKE RANDOM TEST SAMPLES FROM THE MATERIALS, EQUIPMENT, AND APPARATUS FURNISHED.

H. OPERATION AND MAINTENANCE (O & M) MANUALS

REFER TO SECTION 822.06.06 OF THE STANDARD SPECIFICATIONS.

IN ADDITION TO THE MATERIAL REQUIRED PER SECTION 822.06.06 OF THE STANDARD, THE O & M MANUAL SHALL INCLUDE, BUT NOT LIMITED TO AND WHERE APPLICABLE, THE FOLLOWING:

"TABLE OF CONTENTS, ROADWAY LIGHTING SYSTEM OPERATIONAL PLAN, MAINTENANCE AGREEMENTS, WARRANTIES AND GUARANTEES AS REQUIRED UNDER MECHANICAL EQUIPMENT & APPARATUS BROCHURES; SYSTEM TEST RECORDINGS, AND CERTIFICATION LETTERS."

I. CODES AND FEES

ALL MATERIAL FURNISHED AND ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL STATE LAWS, CODES, RULES AND REGULATIONS. THE CONTRACTOR SHALL FILE FOR AND OBTAIN ALL NECESSARY STATE PERMITS. THE CONTRACTOR SHALL PAY ALL FEES FOR STATE PERMITS AND LICENSES REQUIRED TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

J. QUANTITIES

ESTIMATED QUANTITIES ARE GIVEN ON THE PLANS FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS REQUIRED TO COMPUTE AND FURNISH THE QUANTITY OF MATERIALS NECESSARY TO COMPLETE THE WORK AS DETAILED ON THE PLANS AND SPECIFIED HEREIN.

K. MATERIALS AND EQUIPMENT

ALL MATERIAL, EQUIPMENT, AND ACCESSORIES INSTALLED UNDER THIS CONTRACT SHALL CONFORM TO THE RULES AND CODES AS RECOMMENDED BY THE NATIONAL ASSOCIATIONS GOVERNING. ALL MATERIALS SHALL BE NEW AND OF BEST QUALITY. THE CONTRACTOR SHALL PROTECT THE ENTIRE SYSTEM AND ALL PARTS THEREOF FROM INJURY DURING THE PROCESS AND UP TO THE ACCEPTANCE OF WORK.

L. IDENTIFICATION

PRIOR TO FINAL ACCEPTANCE AND AS DIRECTED BY THE PROJECT ENGINEER DURING CONSTRUCTION, THE LIGHTING SYSTEM SHALL BE TESTED ACCORDING TO SECTION 822.09 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL FURNISH ALL EQUIPMENT NECESSARY TO CONDUCT OR REPLACE THE DEFECTIVE COMPONENT(S) AND RE-START TESTING AS DIRECTED BY THE PROJECT ENGINEER.

NOTE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL ELECTRICAL UTILITIES CONSUMED DURING TESTING THAT IS PERFORMED PRIOR TO FINAL ACCEPTANCE.

M. TESTS

THE CONTRACTOR SHALL FURNISH ALL TESTING EQUIPMENT AND CONDUCT THE FOLLOWING TESTS:

PERFORMANCE TEST: ALL EQUIPMENT SHALL BE GIVEN A TWO-WEEK (MINIMUM) PERFORMANCE TEST BEFORE FINAL ACCEPTANCE;

SPECIAL TEST: SPECIAL TESTS SHALL BE CONDUCTED WHERE EQUIPMENT OR SYSTEMS ARE SUSPECTED OF IMPROPER OPERATION, OR WHERE ADDITIONAL DATA IS NECESSARY TO DETERMINE CONFORMANCE WITH THE PLANS AND SPECIFICATIONS; INSULATION TEST: EGO TESTING SHALL BE PERFORMED ON ALL DIRECT BURIED AND ALL OTHER WAG #10 AND LARGER CONDUCTORS AFTER THE CONDUCTORS ARE INSTALLED AND PRIOR TO CONNECTING THE EQUIPMENT. ANY READING BELOW 50 EGO, WHEN MEASURED WITH A 1000 VOLT D.C. INSULATION TESTER, WILL BE CONSIDERED DEFECTIVE; GROUND RESISTANCE TEST: SEE PLAN SHEET 28A "NOTE #21" FOR REQUIREMENTS.

N. CLEAN-UP AND MAINTENANCE OF THE WORK AREAS

THE CONTRACTOR SHALL NOT ALLOW ACCUMULATION OF SCRAP, DEBRIS, WASTE, OR OTHER ITEMS NOT REQUIRED FOR CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL RETAIN ALL STORED ITEMS IN AN ORDERLY ARRANGEMENT ALLOWING MAXIMUM ACCESS, NOT TO IMPEDE DRAINAGE OR TRAFFIC AND PROVIDE REQUIRED PROTECTION OF MATERIALS. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE FROM THE JOB SITE ALL TOOLS, SURPLUS MATERIALS, EQUIPMENT, SCRAP, DEBRIS, AND WASTE, AND CLEAN ALL AREAS ON AND ADJACENT TO THE SITE SOILED BY CONSTRUCTION OF THIS PROJECT.

STATE OF LOUISIANA
KENNETH W. POWERS
License No. 39559
PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING
4/21/21

SHEET NUMBER 28

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA-18-11

DESIGNED	CHECKED	DETAILED	CHECKED	DATE	SHEET
KWP	AMG	PWL	RPO	APRIL 2021	1 OF 1

NO.	DATE	REVISION DESCRIPTION	BY

ELECTRICAL NOTES

HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT

GENERAL NOTES

1. NO EQUIPMENT SHALL BE ORDERED OR INSTALLED UNTIL IT HAS BEEN STAMPED "REVIEWED – NO EXCEPTIONS TAKEN". "REVIEWED – NO EXCEPTIONS TAKEN" DOES NOT RELIEVE THE CONTRACTOR FROM CONFORMANCE WITH THE CONTRACT, EXTEND TO QUANTITIES OR DIMENSIONS, IMPLY THAT THE EQUIPMENT CAN BE INSTALLED OR WILL OPERATE SATISFACTORILY, THAT THE EQUIPMENT CONTAINS ALL NECESSARY COMPONENTS, OR THAT IT WILL COORDINATE WITH OTHER APPROVED ITEMS.

2. MINIMUM SIZE CONDUIT SHALL BE ¾" ABOVE GROUND AND 1" BELOW GROUND. MINIMUM WIRE SIZE SHALL BE #12 AWG. MINIMUM SIZE CIRCUIT BREAKER(S) SHALL BE 20 AMP. PROVIDE WORK SPACE CLEARANCE FOR ALL ELECTRICAL EQUIPMENT ACCORDING TO N.E.C. MAXIMUM FILL ALLOWANCE FOR CONDUCTORS IN CONDUIT SHALL BE 25% IN LIEU OF THE 40% ALLOWED BY NATIONAL ELECTRICAL CODE (N.E.C.).

3. IN ANY CASE WHERE THE DESIGN HEREIN DIFFERS FROM THE MINIMUM REQUIREMENTS SET DOWN BY THE NATIONAL ELECTRICAL CODE (N.E.C.), THE CONTRACTOR SHALL MAINTAIN THE HIGHER LEVEL.

4. ALL UNDERGROUND NON–METALLIC (NM) CONDUITS SHALL CONTAIN A BARE SOLID COPPER GROUNDING CONDUCTOR OF TYPE AND SIZE AS INDICATED IN THE PLANS. ALL OTHER GROUNDING CONDUCTORS SHALL HAVE GREEN INSULATION.

5. WHEN FLEXIBLE METALLIC CONDUITS ARE REQUIRED, BX, MC, OR ARMORED CABLE SHALL NOT BE ALLOWED. REFER TO PLAN SHEET 28C "PARAGRAPH B" FOR ADDITIONAL REQUIREMENTS ON LIQUID–TIGHT FLEXIBLE METAL (LTFM) CONDUIT INSTALLATIONS.

6. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY REPRESENTATIVE IN ORDER TO COORDINATE THE RE–CONNECTION OF THE REQUIRED ELECTRICAL SERVICE POINT(S) AND LIGHTING CONTROLLERS. TRANSFORMERS FOR EACH SERVICE POINT SHALL BE CENTER–TAP, 480/240 VOLT, 1 PHASE. REFER TO PLAN SHEETS FOR DESIGN kVA LOADS FOR EACH SERVICE POINT AND ADDITIONAL REQUIREMENTS. PRIOR TO PERFORMING ANY CONSTRUCTION OR SERVICE TIE–INS, THE CONTRACTOR SHALL VERIFY ALL ELECTRICAL SERVICE (PRIMARY, SECONDARY, AND TEMPORARY) AND THE LOCATION OF ALL SERVICE EQUIPMENT WITH THE UTILITY REPRESENTATIVE.

7. EQUIPMENT LAYOUTS ARE DIAGRAMMATIC. THEY DO NOT SHOW THE EXACT EQUIPMENT QUANTITIES AND LOCATIONS. THE EXACT LOCATIONS OF ALL EQUIPMENT SHALL BE SUCH THAT WHEN INSTALLED, THE EQUIPMENT WILL NOT INTERFERE WITH ANY NEW OR EXISTING UTILITIES OR STRUCTURES. THE FINAL LOCATIONS OF ALL EQUIPMENT SHALL BE AS DIRECTED BY THE PROJECT ENGINEER. THE LAYOUT SHEETS ARE INTENDED ONLY FOR A GENERAL OVERVIEW OF THE WORK REQUIRED. OMISSION FROM THE LAYOUT SHEETS OF ANY ITEM SHOWN ELSEWHERE IN THE PLANS DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR ANY ASSOCIATED WORK.

8. ARC FLASH: ANY CABINET CONTAINING CIRCUIT BREAKERS OR CONTACTORS SHALL BE FIELD MARKED IN ACCORDANCE WITH NEC 110.16 AND 110.24 TO WARN QUALIFIED PERSONS OF THE POTENTIAL OF ELECTRIC ARC FLASH HAZARD.

9. THE PLANS DO NOT NECESSARILY SHOW ALL UNDERGROUND FACILITIES. PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL VERIFY THE LOCATION FOR EVIDENCE OF UNDERGROUND FACILITIES. NOTE: THE DEPARTMENT DOES NOT LIST ITS UNDERGROUND UTILITIES WITH ANY LOCAL ONE CALL TYPE ORGANIZATIONS. THEREFORE, IN ADDITION TO OTHER SOURCES, THE CONTRACTOR MUST NOTIFY THE PROJECT ENGINEER, THE DISTRICT UTILITY REPRESENTATIVE, AND THE DEPARTMENT'S TELECOMMUNICATIONS DIVISION IN ORDER TO COORDINATE WITH THE LOCATION OF ANY UNDERGROUND UTILITIES (WATER, ELECTRIC, GAS, FIBER OPTIC, TELEPHONE, ETC.) AND TO OBTAIN ANY ADDITIONAL INFORMATION CONCERNING THE DEPARTMENT'S UNDERGROUND UTILITIES. CONTACT INFORMATION FOR ALL PARTIES MAY BE OBTAINED DURING THE PRECONSTRUCTION MEETING. THE RESPONSIBILITY FOR DAMAGES AND FOR WORK PLACE SAFETY STILL REMAINS WITH THE CONTRACTOR. THE DEPARTMENT WILL NOT BE RESPONSIBLE FOR DAMAGE TO UNDERGROUND FACILITIES CAUSED BY THE CONTRACTOR'S OPERATIONS.

10. ALL CONDUITS PLACED WITHIN TRENCHES SHALL BE HAND PLACED WITHIN THE TRENCH AND THE TRENCH BACKFILLED TO THE SATISFACTION OF THE PROJECT ENGINEER ON THE SAME DAY. WHEN POSSIBLE, MULTIPLE CONDUIT RUNS SHALL BE PLACED WITHIN COMMON TRENCHES.

11. THE CONTRACTOR SHALL REFER TO PLAN SHEET 28C "PARAGRAPH I" FOR REQUIREMENTS AND SPECIFICATIONS ON GROUNDING THE ELECTRICAL SYSTEM.

12. PLAN SHEETS CONTAINING POLE SCHEDULES AND ELECTRICAL DETAILS ARE TO ASSIST THE CONTRACTOR WITH EQUIPMENT INSTALLATION. FOR SOME EQUIPMENT, MORE THAN ONE ELECTRICAL DETAIL MAY BE REFERENCED OR REQUIRED.

13. FOR EACH ROADWAY LIGHTING INSTALLATION, THE CONTRACTOR SHALL INCLUDE, BUT NOT BE LIMITED TO, A PHOTOMETRIC REPORT/SUMMARY DESCRIBING LIGHT DISTRIBUTION, EFFICIENCY, ZONAL LUMEN OUTPUT, HORIZONTAL ILLUMINANT, LUMINARIES AND POLE CHARACTERISTICS, AND A DIAGRAM OR DRAWING ILLUSTRATING FOOT–CANDLE LEVELS AT VARIOUS POINTS ALONG EACH ROADWAY SEGMENT. ADDITIONAL INFORMATION MAY BE REQUESTED AT THE DISCRETION OF THE PROJECT MANAGER/ENGINEER. ALL REPORTS, DIAGRAMS, DRAWINGS, ETC. SHALL BE OF SUFFICIENT SIZE TO INCLUDE ALL NECESSARY INFORMATION.

14. SPLICES SHALL BE MADE WITH INSULATED COMPRESSION–TYPE CONNECTORS. SCREW–ON TYPE WIRE CONNECTORS ARE NOT ACCEPTABLE.

15. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY CONNECTIONS TO ALL EQUIPMENT REQUIRING ELECTRICAL SERVICE. UNLESS SPECIFICALLY STATED OTHERWISE, ALL SPLICES, JOINTS, TAPS, AND CONNECTIONS SHALL BE MADE IN JUNCTION BOXES OR EQUIPMENT ENCLOSURES. SPLICES WILL NOT BE PERMITTED IN CONDUIT BODIES OR RACEWAYS. SERVICE AND FEEDER CONDUCTORS SHALL BE INSTALLED THEIR ENTIRE LENGTH WITHOUT SPLICES. WHERE TAPS ARE REQUIRED FROM FEEDER OR SERVICE CONDUCTORS, TAPS SHALL BE MADE WITHOUT CUTTING THE MAIN CONDUCTORS. TAPS SHALL BE MADE WITH PARALLEL–TYPE GUTTER TAP CONNECTORS HAVING INSULATED COVERS. WHEN TERMINAL BLOCKS ARE REQUIRED, TERMINAL BLOCKS SHALL BE ALUMINUM, DISTRIBUTION TYPE, 3 POLE, INTERMEDIATE SIZE, BOX TO BOX TYPE CONNECTORS.

16. ALL REMOVED MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR. IF A CONCRETE FOOTING IS TO REMAIN, THE PROJECT ENGINEER SHALL INSTRUCT THE CONTRACTOR ON THE SPECIFICS REGARDING HOW EACH FOOTING IS TO BE HANDLED.

17. FOR ALL UNDERGROUND CONDUIT INSTALLATIONS, THE CONTRACTOR SHALL INSTALL UNDERGROUND MARKER TAPE. REFER TO PLAN SHEET 36 "DETAIL RL520", AND SPECIFICATIONS IN THE CONSTRUCTION PROPOSAL FOR ADDITIONAL REQUIREMENTS.

18. FOR ALL ROADWAY DUCT CROSSING INSTALLATIONS, THE CONTRACTOR SHALL INSTALL CONCRETE DUCT MARKERS AT THE ENDS OF EACH CROSSING. REFER TO PLAN SHEET 34 "DETAIL RL501", AND SPECIFICATIONS IN THE CONSTRUCTION PROPOSAL FOR ADDITIONAL REQUIREMENTS.

19. FOR ALL HIGH MAST TOWER LOWERING DEVICES (NOT APPLICABLE)

20. PRIOR TO FINAL ACCEPTANCE, THE COMPLETE ELECTRICAL AND LIGHTING SYSTEM SHALL BE TESTED IN ACCORDANCE WITH THE 2016 EDITION OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, SECTION 730.06 "SYSTEM TESTING". IF ANY COMPONENT BECOMES DEFECTIVE DURING THE PERFORMANCE TEST PERIOD, THE CONTRACTOR SHALL CORRECT OR REPLACE THE DEFECTIVE COMPONENT(S) AND RE–START THE TWO (2) WEEK PERFORMANCE TESTING WHEN THE COMPONENT IS REPLACED AND RE–ENERGIZED.

21. THE CONTRACTOR SHALL PERFORM GROUND RESISTANCE TESTS OF EACH GROUNDING ELECTRODE AND THE GROUNDING SYSTEM. GROUND RESISTANCE TESTS SHALL BE CONDUCTED USING A 3– OR 4–POINT FALL–OF–POTENTIAL METHOD DEFINED BY IEEE STANDARD #81 OR OTHER INDUSTRY APPROVED TEST METHOD. EACH GROUNDING ELECTRODE SHALL BE TESTED PRIOR TO CONNECTION TO THE GROUND SYSTEM. RESISTANCE–TO–GROUND OF THE GROUND SYSTEM SHALL NOT EXCEED 25 OHMS. GROUND RESISTANCE MEASUREMENTS SHALL BE CONDUCTED IN NORMALLY DRY CONDITIONS NOT LESS THAN 48 HOURS AFTER THE LATEST RAINFALL. ALL GROUND RESISTANCE TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE DEPARTMENT'S ELECTRICAL INSPECTOR. THE CONTRACTOR SHALL DOCUMENT ALL TEST RECORDINGS AND PROVIDE A COPY OF ALL TEST REPORTS TO THE ELECTRICAL INSPECTOR UPON COMPLETION.

STATE OF LOUISIANA
KENNETH W. POWERS
License No. 39559
PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING
4/21/21

SHEET NUMBER 28A

PARISH: ASCENSION | CITY: GONZALES, LA | PROJECT: MA–18–11

DESIGNED: KWP | CHECKED: AMG | DETAILED: PWL | CHECKED: RPO | DATE: APRIL 2021 | SHEET: 1 OF 1

NO.	DATE	REVISION DESCRIPTION	BY

ELECTRICAL NOTES

HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT

LUMINAIRE SPECIFICATIONS:

ROADWAY LUMINAIRE (LED, LOW MAST, "COBRAHEAD TYPE") (304)

GENERAL

LUMINAIRE SHALL BE LED TYPE WITH DRIVER, FLAT LENS, AND HOUSING OPTIMIZED FOR ROADWAY PHOTOMETRIC DISTRIBUTION DESIGNED TO PRODUCE ILLUMINATION ALONG ALL TRAVEL LANES OF THE ROUNDABOUT HAVING ILLUMINATING ENGINEERING SOCIETY (IES) TYPE DISTRIBUTION PATTERN AS SPECIFIED IN THE PLANS COMPLIANT WITH LADOTD PUBLISHED ILLUMINATION STANDARDS FOR ROUNDABOUT LIGHTING. LUMINAIRE SHALL BE DESIGNED FOR THE SPECIFIED LUMINAIRE MANUFACTURER'S DRIVER AND HEAT SINK TO ENSURE MAXIMUM HEAT TRANSFER AND LONG LED LIFE. LUMINAIRE MOUNTING HEIGHT SHALL BE AS SPECIFIED IN THE PLANS. ALL LUMINAIRES FOR THE PROJECT SHALL BE THE SAME TYPE AND DESIGN AS SPECIFIED IN THE PLANS.

LUMINAIRE SHALL HAVE 310 MAXIMUM INPUT WATTS. INITIAL LUMEN RANGE FOR LUMINAIRE SHALL BE 13,400 TO 17,400 UNLESS OTHERWISE SPECIFIED. LUMINAIRE SHALL HAVE AN EXTERNAL LABEL PER ANSI C126.15 AND INTERNAL LABEL PER ANSI C136.22. AND BE TEMPERATURE RATED FOR OPERATION AND STORAGE BETWEEN $-40(-40) \leq$°F(°C)$\leq 104(50)$.

LUMINAIRE SHALL BE UL LISTED SUITABLE FOR WET LOCATIONS PER UL 1598. LUMINAIRE SHALL HAVE OPERATING VOLTAGE OF 240 VAC AT 60 HERTZ. ALL INTERNAL WIRING AND QUICK DISCONNECTS SHALL BE 600 VAC RATED AND INSULATED FOR 302°F(150°C). WIRING, GROUNDING, AC TERMINAL BLOCKS, PHOTOCONTROL RECEPTACLE (WHEN SPECIFIED), LATCHING AND HINGING SHALL BE IN ACCORDANCE WITH THE CORRESPONDING SECTIONS OF ANSI C136.37.

LUMINAIRE SHALL BE 3G VIBRATION RATED PER ANSI C136.31. LUMINAIRE SHALL UTILIZE AN ADJUSTABLE TWO-PIECE FOUR (4) BOLT SLIPFITTER-TYPE MOUNTING SYSTEM FOR INSTALLATION ON 1¼" AND/OR 2" DIAMETER PIPE TENONS. SLIPFITTER SHALL HAVE A VARIABLE DEGREE RANGE FOR VERTICAL TILT ADJUSTMENT IN ORDER TO MOUNT LUMINAIRE PLUMB FOR AN UPWARD LIGHT OUTPUT RATIO (ULOR) EQUAL TO "0". LUMINARIES SHALL BE EQUIPPED WITH INTEGRATED EXTERNAL BUBBLE LEVEL. LUMINAIRE MAXIMUM EFFECTIVE PROJECTED AREA (EPA) FOR WIND-LOADING CALCULATIONS SHALL BE 1.2 FT^2. LUMINAIRE WEIGHT SHALL NOT EXCEED 50 POUNDS.

LUMINAIRE SHALL BE TESTED IN ACCORDANCE WITH IES LM79 AND TM21, RESPECTIVELY, CERTIFYING PHOTOMETRIC PERFORMANCE AND RATED LIFE. LM79 (PERFORMANCE) AND TM21 (PREDICTED LIFE AT 131°F(55°C)). TESTING SHALL BE FOR THE SAME LUMINAIRE OPERATING DRIVE CURRENT AS SPECIFIED UNDER LED DRIVER.

DISTRIBUTION: II OR III

COLOR/TYPE: BLACK MATTE ALUMINUM

IP66 RATED BOROSILICATE GLASS OPTICS.

HOUSING

HOUSING SHALL BE OF ALUMINUM-ALLOY CONSTRUCTION. HOUSING SHALL HAVE A POWER DOOR ASSEMBLY WITH REMOVABLE RETENTION LATCH. DOOR THAT PROVIDES ACCESS TO ALL INTERNAL COMPONENTS WITHOUT USE OF TOOLS (I.E. "TOOL-LESS ENTRY"). DOOR FRAME SHALL BE AN ALUMINUM CASTING, HINGED TO THE HOUSING. ACCESS TO INTERNAL PARTS REQUIRING REPLACEMENT SHALL REQUIRE MINIMUM STANDARD TOOLS. HOUSING SHALL HAVE A MODERN DESIGN PRESERVING THE AESTHETIC LOOK OF TRADITIONAL ROADWAY COBRAHEAD LUMINAIRES AND INCORPORATE A HEAT SINK DIRECTLY INTO THE UNIT ENSURING MAXIMUM HEAT TRANSFER AND LONG LED LIFE. COLOR SHALL BE GRAY AND SHALL HAVE A CORROSION RESISTANT SUPER TRIGLYCIDYL ISOCYANURATE (TGIC) POLYESTER POWDERCOAT. POWER COAT SHALL BE SUPER TGIC POLYESTER POWDER COAT 2.5 MIL NOMINAL THICKNESS. FINISH SHALL EXCEED A RATING OF 6 PER ASTM D1654 AFTER 1000HRS OF TESTING PER ASTM B117. COATING SHALL EXHIBIT 30% (MAX.) REDUCTION OF GLOSS PER ASTM D523 AFTER 500 HOURS OF QUV TESTING AT ASTM G154 CYCLE 6.

OPTICAL ENCLOSURE

ENCLOSURE SHALL HAVE IP66 MINIMUM INGRESS PROTECTION RATING PER ANSI C136.25. TRANSMISSIVE OPTICAL COMPONENTS SHALL BE APPLIED IN ACCORDANCE WITH LED MANUFACTURER'S (OEM) DESIGN GUIDELINES TO ENSURE SUITABILITY FOR THE ENVIRONMENT IN WHICH THE LUMINAIRE IS INSTALLED. THE LUMINAIRE DISTRIBUTION SHALL HAVE BACKLIGHT UPLIGHT AND GLARE (BUG) RATING IN ACCORDANCE WITH THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) TM-15-11 BASED ON INITIAL LUMENS AND/OR A LIGHT LOSS FACTOR (LLF) = 1.0. LUMINAIRES HAVING A "U" VALUE GREATER THAN "U0" SHALL NOT BE ACCEPTED. OPTICAL CHAMBER SHALL BE SEALED FROM THE HOUSING, OR THE HOUSING SHALL BE COMPLETELY SEALED. A SEAMLESS ONE PIECE MEMORY-RETENTIVE GASKET SHALL SEAL THE OPTICAL CHAMBER OR HOUSING AGAINST THE LUMINAIRE LENS DOOR. ALL WIRES ENTERING THE OPTICAL CHAMBER SHALL BE GASKETED AT THEIR POINT OF ENTRY. SOCKET MOUNTINGS, RIVETS USED IN THE CONSTRUCTION OR SUPPORT OF THE REFLECTOR SYSTEM, AND ALL OTHER PENETRATIONS INTO THE OPTICAL CHAMBER SHALL BE COMPLETELY SEALED.

LIGHT SOURCE

LED MODULES CONNECTED TO AN INTEGRATED DRIVER AND READY FOR CONNECTION TO A PRODUCTION LINE LUMINAIRE. SCREW-BASED OR PANEL RETROFIT LED PRODUCTS SHALL NOT BE ACCEPTED. LED LIGHT SOURCE SHALL BE PROVIDED BY THE SAME MANUFACTURER. DRIVER SHALL BE EASILY REMOVABLE FROM THE LUMINAIRE HOUSING WITH USE OF MINIMAL STANDARD TOOLS. MAXIMUM CORRELATED COLOR TEMPERATURE (CCT) SHALL BE A 3000K. RESULTS. LEDS SHALL HAVE A MINIMUM RATED LIFE OF 70,000 HOURS PER IES TM-21 AT 131°F(55°C) AT THE NORMAL OPERATING DRIVER CURRENT FOR THE SPECIFIC LUMINAIRE. THE LUMEN OUTPUT SHALL BE MAINTAINED AT 70% OF INITIAL RATED LUMENS (L70) OR GREATER AT THE RATED LIFE OF THE LUMINAIRE. LEDS SHALL BE TEMPERATURE RATED FOR OPERATION AND STORAGE WITHIN THE RANGE OF $-40(-40) \leq$°F(°C)$\leq 104(50)$ AND SHALL WITHSTAND LOW AND HIGH FREQUENCY VIBRATION (ANSI C136.31 VIBRATION LEVEL 3G) OVER THE RATED LIFE. MECHANICAL DESIGN OF PROTRUDING EXTERNAL SURFACES SHALL FACILITATE HOSE-DOWN CLEANING AND DISCOURAGE DEBRIS ACCUMULATION. THE COOLING SYSTEM MUST BE PASSIVE UTILIZING HEAT SINKS, CONVECTION OR CONDUCTION. FANS, DIAPHRAGMS, PUMPS, OR LIQUIDS SHALL NOT BE ACCEPTABLE.

PHOTOCONTROL RECEPTACLE

LED LUMINAIRE SHALL NOT HAVE INTEGRATED MULTI-CONTACT TWIST-LOCK OUTDOOR RATED PHOTOCONTROL RECEPTACLE.

LED DRIVER

DRIVER SHALL BE INTERNAL AND THERMALLY SEPARATED FROM LED COMPARTMENT. OPERATING VOLTAGE SHALL BE 240VAC AT 60 HZ AND SHALL OPERATE NORMALLY WITH INPUT VOLTAGE FLUCTUATION OF ±10 PERCENT. MINIMUM POWER FACTOR (PF) SHALL BE 0.90 AT FULL INPUT POWER AND ACROSS SPECIFIED VOLTAGE RANGE. MAXIMUM TOTAL HARMONIC DISTORTION (THD) SHALL BE 20% AT FULL INPUT POWER AND AT THE SPECIFIED VOLTAGE RANGE. FACTORY-SET DRIVE CURRENT SHALL BE AS REQUIRED TO ACHIEVE SPECIFIED LUMEN RANGE. HAZARDOUS SUBSTANCES (ROHS) COMPLIANT. RATED CASE TEMPERATURE SHALL CONFORM TO AFOREMENTIONED SECTION C.3. ALL POWER SUPPLY ELECTRONICS AND LEDS SHALL BE PROTECTED FROM ALL ELECTRICAL SURGES (INCLUDING BUT NOT LIMITED TO LIGHTING STRIKES AND STRAY CURRENT IN REBAR AND CONCRETE) VIA INTEGRAL SURGE PROTECTION COMPLIANT WITH "ELEVATED" REQUIREMENTS PER IEEE C62.41.2-2002. EMI SHALL COMPLY WITH FEDERAL COMMUNICATIONS COMMISSION (FCC) TITLE 47 PART 15 CLASS A STANDARD.

WARRANTY

MINIMUM FIVE YEARS MANUFACTURER LIMITED WARRANTY ON LED LIGHT ENGINE, DRIVER AND NON ELECTRICAL COMPONENTS.

STATE OF LOUISIANA
KENNETH W. POWERS
License No. 39559
PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING
4/21/21

SHEET NUMBER 28B

ASCENSION	GONZALES, LA	MA-18-11
PARISH	CITY	PROJECT
KWP / AMG	PWL / RPO	APRIL 2021 / 1 OF 1
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ELECTRICAL NOTES

HWY. 929 & HWY. 930 ROUNDABOUT

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ELECTRICAL SPECIFICATIONS (CONTINUED):

A. ORDINANCES, RULES, AND REGULATIONS

ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF ALL BUILDING CODES, SANITARY CODES AND ORDINANCES IN FORCE IN THE LOCALITY IN WHICH THE WORK IS TO BE DONE. ALL MATERIALS AND CONSTRUCTION SHALL ALSO CONFORM TO THE RULES AND REGULATIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), UNDERWRITER LABORATORIES (UL), NATIONAL ELECTRIC CODE (NEC), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), INSULATED CABLE ENGINEER'S ASSOCIATION (ICEA), NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA), AMERICAN WIRE GAUGE (AWG), AMERICANS WITH DISABILITIES ACT ACCESSIBILITIES GUIDELINES (ADAAG), AND SECTION 730 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES. THE CONTRACTOR SHALL PAY FOR ANY REQUIRED PERMITS AND INSPECTIONS.

B. CONDUIT SYSTEM

ALL CONDUITS SHALL BE INSTALLED CONCEALED UNLESS NOTED OTHERWISE ON THE PLANS. UNDERGROUND CONDUITS SHALL BE INSTALLED 3'-0" BELOW GRADE UNLESS SPECIFIED OTHERWISE. MARKER TAPE (SEE PARAGRAPH F) SHALL BE PLACED ABOVE ALL UNDERGROUND CONDUITS CARRYING ELECTRICAL CONDUCTORS. ALL CONDUITS WITHIN TRENCHES SHALL BE HAND PLACED INSIDE THE TRENCH, AND THE TRENCH BACKFILLED TO THE SATISFACTION OF THE ENGINEER ON THE SAME DAY. WHEN POSSIBLE, MULTIPLE CONDUIT RUNS SHALL BE PLACED IN A COMMON TRENCH. RACEWAYS CONTAINING BOTH LINE AND LOAD SIDE CONDUCTORS ARE PROHIBITED.

RIGID STEEL CONDUIT AND FITTINGS:

RIGID STEEL CONDUIT SHALL CONFORM TO CURRENT NEC CODE, FEDERAL SPECIFICATION WW-C-581 (CLASS 1 TYPE A), UL SAFETY STANDARD 6, AND ANSI C80.1 SPECIFICATIONS. ALL CONDUITS ENTERING THE GROUND, CONCRETE SLABS, FOUNDATIONS, OR WHERE INDICATED ON THE PLANS SHALL BE THREADED GALVANIZED RIGID STEEL. GALVANIZED RIGID STEEL RISER SECTION(S) SHALL EXTEND FROM THE SERVICE HEAD, OR LAST ABOVE GROUND JUNCTION BOX, TO THE UNDERGROUND NON-METALLIC (NM) CONDUIT COUPLING. RIGID STEEL CONDUIT FITTINGS SHALL BE THREADED TYPE WITH CAST OR MALLEABLE IRON BODIES AND COVERS HAVING ZINC FINISH, SOLID NEOPRENE GASKETS, AND MARINE DUTY STAINLESS STEEL HARDWARE WITH MINIMUM 30,000 PSI YIELD STRENGTH.

RIGID ALUMINUM CONDUIT AND FITTINGS:

RIGID ALUMINUM CONDUIT SHALL CONFORM TO CURRENT NEC CODE, FEDERAL SPECIFICATION WW-C-540c, UL SAFETY STANDARD 6A, AND ANSI C80.5 SPECIFICATIONS. ALL CONDUIT AND FITTINGS INSTALLED ON STRUCTURES SHALL BE RIGID ALUMINUM. RIGID ALUMINUM CONDUIT AND FITTINGS SHALL ALSO BE INSTALLED WHERE CONDUITS ARE REQUIRED OUTDOORS, IN HAZARDOUS LOCATIONS, WHERE SUBJECT TO PHYSICAL DAMAGE, AND WHERE INDICATED ON THE PLANS. THREADS SHALL BE PAINTED WITH A CONDUCTING OXIDE INHIBITING COMPOUND BEFORE INSTALLATION. FITTINGS SHALL BE THREADED TYPE WITH CAST OR DIE-CAST COPPER FREE BODIES AND COVERS, SOLID NEOPRENE GASKETS, AND STAINLESS STEEL SCREWS. EXPANSION FITTINGS SHALL BE INSTALLED WITH EXTERNAL ALUMINUM BONDING STRAPS, MARINE DUTY STAINLESS STEEL "U" BOLT CLAMPS AND HARDWARE HAVING A MINIMUM YIELD STRENGTH OF 30,000 PSI.

NON-METALLIC CONDUITS (NM) AND FITTINGS:

NON-METALLIC CONDUIT AND FITTINGS SHALL BE SCHEDULE 40 OR 80 PVC OR SCHEDULE 40 OR 80 HIGH DENSITY POLYETHYLENE AND BE INSTALLED IN LOCATIONS AS INDICATED ON THE PLANS. NON-METALLIC CONDUITS SHALL BE UL LISTED, SUNLIGHT RESISTANT, AND CONFORM TO CURRENT UL SAFETY STANDARD 651, NEMA TC-2, AND NEC CODE SPECIFICATIONS. NON-METALLIC (NM) CONDUITS SHALL NOT BE INSTALLED ABOVE THE GROUND OR SLABS, SHALL BE INSTALLED 4 FEET (MINIMUM) FROM SHOULDERS, AND BURIED 3'-0" MINIMUM UNDERGROUND UNLESS INSTALLED UNDER CONCRETE SLABS. WITH THE EXCEPTION OF GALVANIZED RIGID STEEL SECTIONS, UNDERGROUND CONDUITS SHALL HAVE NO VERTICAL BENDS OR RUNS.

LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LFMC) AND FITTINGS:

LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL CONFORM TO NEC ARTICLE 350 "LIQUID-TIGHT FLEXIBLE METAL CONDUIT (LFMC)", BE UL LISTED AS PER UL STANDARD FOR SAFETY 360, AND BE INSTALLED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE PROJECT ENGINEER. LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE CONSTRUCTED OF A HOT-DIPPED GALVANIZED, CONTINUOUS INTERLOCKING STEEL STRIP HAVING A HEAVY COATING OF ZINC HELICALLY FORMED INTO A METAL CORE. LIQUID-TIGHT FLEXIBLE METAL CONDUITS SHALL HAVE A GRAY THERMOPLASTIC JACKET EXTRUDED OVER THE METAL CORE THAT IS MOISTURE RESISTANT [TEMPERATURE RANGE -30(-22)°C(°F), OIL RESISTANT [TEMPERATURE RANGE 60^C(140^F)], AND UV SUNLIGHT RESISTANT. THE THERMOPLASTIC JACKET SHALL HAVE MINIMUM PRINTINGS WHICH IDENTIFY MANUFACTURER'S NAME, PRODUCT NAME, SIZE, UL, CSA, AND SUNLIGHT AND OIL RESISTIVITY. LIQUID-TIGHT FLEXIBLE METAL CONDUITS SHALL ACCEPT STANDARD LIQUID-TIGHT METAL FITTINGS AND BE CONSTRUCTED SUCH THAT THE MATERIALS FORMING THE CONDUIT/RACEWAY WILL SEAL OUT, BUT NOT LIMITED TO, WEATHER, WATER, LIQUIDS, ABRASIVES, ALCOHOL, COOLANTS, CORROSIVE FUMES AND GASES, DIRT, GREASE, MINERAL ACIDS, NON-CONCENTRATED FIXED ALKALINES, PETROLEUM OILS, AND SALT AIR AND SPRAY. LIQUID-TIGHT FLEXIBLE METAL CONDUITS SHALL HAVE SMOOTH METAL INTERIORS FOR EASY WIRE PULLING, BE APPROVED FOR USE EXPOSED, CONCEALED, DIRECT BURIED, OR CONCRETE ENCASED. FLEXIBLE CONDUIT INSTALLATIONS FROM JUNCTION BOXES TO UNDERPASS LUMINAIRES SHALL HAVE FLEXIBLE LENGTHS OF 1'-6" (MAXIMUM). ALL OTHER LOCATIONS REQUIRING FLEXIBLE CONDUIT INSTALLATIONS SHALL HAVE FLEXIBLE LENGTHS OF 3'-0" (MAXIMUM).

C. WIRE AND CABLE

UNLESS NOTED OTHERWISE IN THE PLANS, ALL CONDUCTORS SHALL BE INSTALLED IN RACEWAYS AND SHALL BE CLASS B STRANDED COPPER HAVING 600 VOLT RATED CROSS-LINKED POLYETHYLENE INSULATION (TYPE XHHW-2) CONFORMING TO INSULATED CABLE ENGINEERS ASSOCIATION (ICEA) STANDARD S-95-658, INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 1202, FEDERAL SPECIFICATION A-A-59544, NEMA PUBLICATION NO. WC-70, AND THE NEC FOR CROSS-LINKED THERMOSETTING POLYETHYLENE INSULATED WIRE AND POWER CABLE. WHERE CONDUCTORS ARE CONNECTED TO, OR INSTALLED NEAR HEAT PRODUCING EQUIPMENT (LUMINARIES, HEATERS, MOTORS, ETC.), THE CONDUCTOR INSULATION FOR THE AFFECTED CONDUCTORS SHALL HAVE A TEMP. RATING IN EXCESS OF THE TEMP. EXPECTED TO BE ENCOUNTERED.

D. WIRE CONNECTIONS AND DEVICES

THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY CONNECTIONS TO ALL EQUIPMENT REQUIRING ELECTRICAL SERVICE. UNLESS NOTED OTHERWISE, ALL SPLICES, JOINTS, TAPS, AND CONNECTIONS SHALL BE MADE IN JCT. BOXES OR EQUIP. ENCLOSURES. SPLICES SHALL NOT BE PERMITTED IN CONDUIT BODIES OR RACEWAYS. SPLICES IN AERIAL CABLES SHALL BE MADE WITH INSUL. COMPRESSION TYPE CONNECTORS. SCREW-ON TYPE WIRE NUTS ARE PROHIBITED. SERVICE AND FEEDER CONDUCTORS SHALL BE INSTALLED THEIR ENTIRE LENGTH WITHOUT SPLICES. WHERE TAPS ARE REQUIRED FROM FEEDER OR SERVICE CONDUCTORS, TAPS SHALL BE MADE WITHOUT CUTTING MAIN CONDUCTORS. TAPS SHALL BE MADE WITH PARALLEL TYPE GUTTER TAP CONNECTORS HAVING INSULATED COVERS. TERMINAL BLOCKS SHALL BE ONE PIECE BARRIER TYPE, 600 VAC, AND HAVE HIGH PRESSURE BOX LUG TERMINALS SUITABLE FOR COPPER CONDUCTORS.

E. DUCT MARKER (CONCRETE) REFER TO PLAN SHEET 34 "DETAIL RL501" FOR SPECIFICATIONS.

F. MARKER TAPE (UNDERGROUND) REFER TO PLAN SHEET 36 "DETAIL RL520" FOR SPECIFICATIONS.

G. SUPPORTING DEVICES AND MOUNTING HARDWARE, FASTENERS, NUTS, BOLTS, WASHERS, AND CONCRETE ANCHORS

EQUIPMENT SUPPORTS:

SUPPORTS SHALL BE SUITABLE FOR THE ENVIRONMENT AND SHALL BE CAPABLE OF SUPPORTING A MINIMUM OF FIVE (5) TIMES THE ACTUAL LOAD OF THE EQUIPMENT ALONG WITH THE ANY ADDITIONAL LOADS LIKELY TO BE ENCOUNTERED. LUMINAIRES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURES. A SAFETY CHAIN OR WIRE SHALL BE INCLUDED AND BE CONNECTED FROM THE LUMINAIRE TO THE STRUCTURE WHICH CAN SUPPORT THE EQUIPMENT. EQUIPMENT SUPPORTS SHALL BE SUITABLE FOR THE ENVIRONMENT AND SHALL BE CAPABLE OF SUPPORTING A MINIMUM OF FIVE (5) TIMES THE ACTUAL LOAD OF THE EQUIPMENT ALONG WITH THE ANY ADDITIONAL LOADS LIKELY TO BE ENCOUNTERED. FABRICATED SUPPORTS FOR EQUIPMENT, WHEN APPLICABLE, SHALL BE SUBMITTED FOR APPROVAL BEFORE FABRICATION AND INSTALLATION.

CONDUIT SUPPORTS

CONDUCTORS IN HORIZONTAL AND VERTICAL RACEWAYS (BOTH RIGID AND FLEXIBLE) SHALL BE SUPPORTED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.

MOUNTING HARDWARE, FASTENERS, NUTS, BOLTS, WASHERS, AND CONCRETE ANCHORS:

UNLESS NOTED OTHERWISE, ALL MOUNTING HARDWARE, FASTENERS, NUTS, BOLTS, AND WASHERS SHALL BE AS SPECIFIED IN SECTION 822.081 OF THE STANDARD SPECIFICATIONS. MASONRY (OR CONCRETE) ANCHORS USED FOR MOUNTING EQUIPMENT TO CONCRETE STRUCTURES SHALL ONLY BE THOSE AS DESCRIBED BY CURRENT LA DOTD MATERIALS LAB APPROVED MATERIALS LIST, CONCRETE ANCHOR SYSTEMS, MECHANICAL.

H. DEVICE AND JUNCTION/PULL BOXES

DEVICE BOXES:

UNLESS SPECIFIED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE PROJECT ENGINEER, BOXES SHALL BE METALLIC TYPE AND MOUNTED FLUSH. DEVICE BOXES SHALL BE 4" SQ. X 1" DEEP OR LARGER WITH RAISED DEVICE COVERS. WHEN ONLY ONE (1) CONDUIT ENTERS THE BOX, SINGLE GANG BOXES MAY BE USED.

JUNCTION/PULL BOXES (UNDERGROUND):

JUNCTION BOX SHALL BE FABRICATED FROM FIBERGLASS REINFORCED POLYMER CONCRETE OR U.V. STABILIZED HIGH-DENSITY POLYETHYLENE HAVING U.V. STABILIZED GREEN, BLACK, OR GRAY COLOR. BOX SHALL BE INSTALLED IN A 6" THICK CONCRETE PAD UNLESS SHOWN OTHERWISE ON THE PLANS. BOX AND COVER SHALL BE DESIGNED FOR USE IN ROADWAY APPLICATIONS AND BE HEAVY DUTY RATED 150 PSI OVER A 10"X10" AREA (MINIMUM). ALL BOX AND COVER HARDWARE SHALL BE AS DESCRIBED IN PARAGRAPH E "SUPPORTING DEVICES AND MOUNTING HARDWARE, FASTENERS, NUTS, BOLTS, AND WASHERS". BOX COVER SHALL INCLUDE STANDARD "LIGHTING" LOGO. UNLESS NOTED OTHERWISE, BOX SHALL HAVE INTERIOR DIMENSIONS 12"(LENGTH) X 12"(WIDTH) X 10"(DEPTH), WITH DEPTH MEASURED FROM BOTTOM OF COVER TO BOTTOM OF BOX WHILE COVER IS INSTALLED. BOX AND COVER SHALL COMPLY WITH THREE (3) POSITION TESTING AS REQUIRED BY UNDERWRITER LABORATORIES (UL) OR WESTERN UNDERGROUND COMMITTEE (W.U.C.), GUIDELINE 3.6. FOR EQUIPMENT NOT UL OR W.U.C. 3.6 COMPLIANT, PROOF OF EQUIVALENT TESTING SHALL BE SUPPLIED BY A REGISTERED PROFESSIONAL ENGINEER. ALL DIMENSIONS ARE MINIMUM.

JUNCTION/PULL BOXES (STRUCTURE MOUNTED):

STRUCTURE MOUNTED JUNCTION/PULL BOXES SHALL BE TYPE 304 STAINLESS STEEL, CONTINUOUS HINGE, NEMA 4X RATED, 10"X8"X4", 16 GAUGE WALL (MIN.), WITH POWER DISTRIBUTION BLOCK (ITEM 309 INCLUDED). INSTALL CONDUITS TO BOX USING UNIONS, MYERS HUB WITH GROUNDING LOCKNUTS OR BOLT-ON HUBS. INSTALL ONE (1) DRAIN/BREATHER IN BOTTOM OF BOX. INTERNAL MOUNTING PLATE SHALL ALSO BE TYPE 304 STAINLESS STEEL.

I. GROUNDING AND BONDING

THE CONTRACTOR SHALL GROUND AND BOND THE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEC. THE NEUTRAL CONDUCTOR BAR AND GROUND BAR SHALL BE BONDED ONLY AT THE RESPECTIVE SERVICE EQUIPMENT (I.E. SERVICE DISCONNECT, SERVICE PANEL, LIGHTING CONTROLLER, TRANSFORMER SECONDARIES, ETC.). WHEN APPLICABLE, THE ELECTRICAL SYSTEM SHALL BE GROUNDED TO COLD WATER PIPING SYSTEMS.

GROUNDING ELECTRODES:

GROUNDING ELECTRODES SHALL BE TYPE 316 STAINLESS STEEL.

GROUNDING ELECTRODE CONDUCTORS:

UNLESS NOTED OTHERWISE ON THE PLANS, GROUNDING ELECTRODE CONDUCTORS UTILIZED WITH BONDING GROUNDING ELECTRODES SHALL BE #2 SOLID BARE COPPER MINIMUM. WHEN CONNECTING GROUNDING ELECTRODE CONDUCTORS TO GROUNDING ELECTRODES, THE CONTRACTOR SHALL USE EXOTHERMIC WELDS ("CADWELD", "THERMOWELD" OR APPROVED EQUAL). REFER TO MANUFACTURER'S SPECIFIC INSTRUCTIONS AND MOLDS FOR EACH WELD TO PROVIDE PERMANENT, LOW-RESISTANCE LIFETIME CONNECTIONS THAT WILL NOT LOOSEN OR CORRODE. WHEN MULTIPLE GROUND ELECTRODES ARE REQUIRED, GROUNDING ELECTRODE CONDUCTORS MAY BE CUT PROVIDED AN APPROPRIATE EXOTHERMIC WELD IS UTILIZED TO ATTACH THE GROUNDING ELECTRODE CONDUCTOR TO EACH GROUNDING ELECTRODE. ALL GROUNDING ELECTRODE CONDUCTORS SHALL BE INSTALLED UNBROKEN FROM THE GROUNDING ELECTRODES TO THE RESPECTIVE SERVICE EQUIPMENT (I.E. SERVICE DISCONNECT, SERVICE PANEL, LIGHTING CONTROLLER, TRANSFORMER SECONDARIES, ETC.). ALL EXPOSED GROUNDING ELECTRODE CONDUCTOR DROPS FROM ENCLOSURES TO GROUNDING ELECTRODES OUTSIDE SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUIT (MINIMUM).

EQUIPMENT GROUNDING CONDUCTORS:

UNLESS NOTED OTHERWISE ON THE PLANS, EQUIPMENT GROUNDING CONDUCTORS INSTALLED IN NONMETALLIC CONDUITS SHALL BARE, SOLID, COPPER CONDUCTORS. ALL OTHER EQUIPMENT GROUNDING CONDUCTORS INSTALLED IN CONDUIT SHALL BE STRANDED, COPPER CONDUCTORS, WITH GREEN INSULATION OF TYPE AS INDICATED IN THE PLANS.

J. CONDUIT EXPANSION FITTINGS (407)

WHERE CONDUITS ARE SUBJECT TO MOVEMENT OR CROSS EXPANSION JOINTS, CONDUITS SHALL BE SUPPLIED WITH EXPANSION AND/OR DEFLECTION FITTINGS, OR OTHER METHODS HAVING PRIOR APPROVAL BY THE DESIGN ENGINEER. EXPANSION FITTINGS SHALL BE INSTALLED AT ALL TRANSITIONS FROM ONE FIXED STRUCTURE TO A SEPARATED STRUCTURE INCLUDING CONDUITS CROSSING EXPANSION GAPS BETWEEN APPROACH SLAB, AND/OR AS DIRECTED BY THE PROJECT ENGINEER. EXPANSION FITTINGS SHALL HAVE AN INTEGRAL BONDING JUMPER.

STATE OF LOUISIANA
KENNETH W. POWERS
License No. 39559
PROFESSIONAL ENGINEER
IN
ELECTRICAL ENGINEERING
4/21/21

SHEET NUMBER 28C

ASCENSION	GONZALES, LA	MA-18-11
PARISH	CITY	PROJECT

KWP	PWL	APRIL 2021	1 OF 1
AMG	RPO		
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MOVE ASCENSION

VOLKERT

LEGEND: (PROPOSED)

- DITCH
- REQ'D. SIDE DRAIN PIPE
- CONDUIT, UNDERGROUND
- CASTING, JACKET OR BORED
- LIGHT POLE, LOWMAST SINGLE ARM
- DUCT MARKER (CONCRETE)
- SERVICE POINT (REQUIRED)
- SECONDARY POWER CONTROLLER (SPC1)
- CONDUIT LABEL
- DISCONNECT SWITCH

Scale : 1" = 40'

208+00
207+00
206+00
205+00
204+00
203+00
202+00
201+00
200+00
100+00
101+00
102+00
103+00
104+00
105+00
106+00
107+00
108+00
109+00

END PARISH PROJECT
ASCENSION PARISH
HWY. 930
STA. 207+65.41
N: 654607.89
E: 3400044.23

STA. 207+35.54 (930), OFF. −25.57'
[SPC−1]−2−15

STA. 205+59.42 (930), OFF. −22.95'
[SPC−1]−2−15

STA. 103+33.48 (929), OFF. −53.72'
[SPC−1]−2−15

STA. 104+67.52 (929), OFF. −52.78'
[SPC−1]−1−15

STA. 105+72.86 (929), OFF. −23.77'
[SPC−1]−1−15

STA. 107+36.79 (929), OFF. −22.94'
[SPC−1]−1−15

BEGIN PARISH PROJECT
ASCENSION PARISH
HWY. 929
STA.: 100+64.03
N: 654264.45
E: 3399709.69

END PARISH PROJECT
ASCENSION PARISH
HWY. 929
STA. 108+38.00
N: 654275.91
E: 3400476.68

STA. 100+73.00 (929), OFF. 24.41'
[SPC−1]−2−15

STA. 102+41.10 (929), OFF. 24.71'
[SPC−1]−2−15

STA. 103+47.84 (929), OFF. 60.75'
[SPC−1]−2−15

STA. 104+48.36 (929), OFF. 59.59'
[SPC−1]−1−15

STA. 202+35.18 (930), OFF. 25.05'
[SPC−1]−1−15

STA. 200+68.72 (930), OFF. 24.95'
[SPC−1]−1−15

BEGIN PARISH PROJECT
ASCENSION PARISH
HWY. 930
STA.: 200+32.41
N: 653877.27
E: 3400057.78

L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12

STA. XXX+XX.XX, OFF. XX.XX'
[XXX−X]−X−XX

SERVICE POINT
CIRCUIT #
ARM LENGTH

ITEM NO.	LABEL	CONDUIT WITH CONDUCTORS
406, 412−413	(M)	2" PVC, 2−#6, 1−#6 BARE STRANDED GROUND
404, 412−413	(N)	2" RGS, 2−#2, 1−#6 BARE STRANDED GROUND

NOTES:

1. THIS SHEET IS INTENDED ONLY AS A GENERAL OVERVIEW OF THE WORK REQUIRED. OMISSION FROM THIS SHEET OF ANY ITEM SHOWN ELSEWHERE IN THE PLANS DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR ANY ASSOCIATED WORK.
2. NUMBERS SHOWN IN PARENTHESES CORRESPOND TO ELECTRICAL EQUIPMENT ITEMS LISTED ON PLAN SHEET 38 AND 39. SEE PLAN SHEETS 38 AND 39 FOR EQUIPMENT DESCRIPTIONS ASSOCIATED WITH EACH ITEM NUMBER.
3. CONDUIT RUNS SHOWN CROSSING ROADWAYS, DRIVEWAYS, ETC. SHALL BE INSTALLED IN PROTECTIVE SCHEDULE 80 PVC CASING.
4. FOR ALL UNDERGROUND CONDUIT INSTALLATIONS, THE CONTRACTOR SHALL INSTALL MARKER TAPE (421).

STATE OF LOUISIANA
KENNETH W. POWERS
License No. 39559
PROFESSIONAL ENGINEER
IN
ELECTRICAL ENGINEERING

4/21/21

SHEET NUMBER 29

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA−18−11

DESIGNED	CHECKED	DETAILED	CHECKED	DATE	SHEET
KWP	AMG	PML	RPO	APRIL 2021	1 OF 1

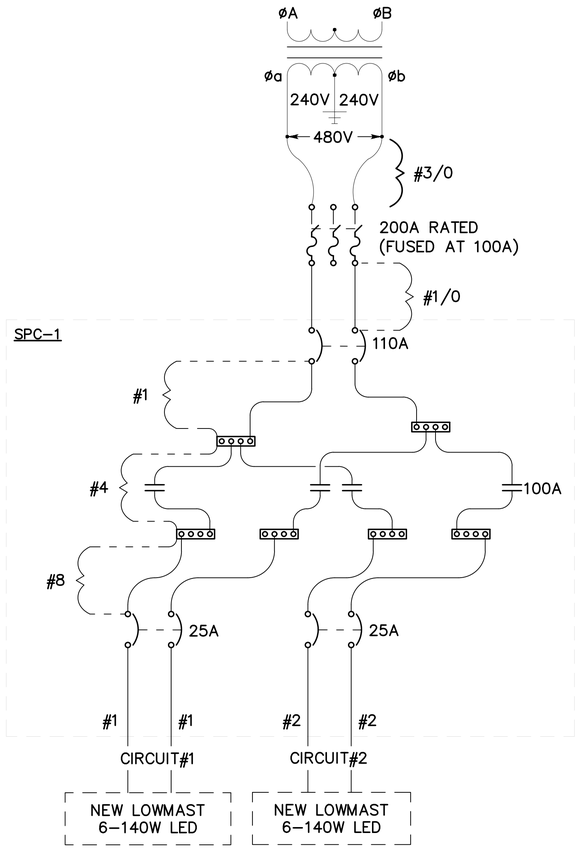
NO.	DATE	REVISION DESCRIPTION	BY

ELECTRICAL LIGHTING PLAN
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT

ELECTRICAL SCHEMATIC



SECONDARY POWER CONTROLLER [SPC-1]

POLE SCHEDULE

LIGHTING EQUIPMENT	CIRCUIT NO.	QTY.	LUMINAIRE		CIRCUIT AMPS @ 480V
			WATTAGE	AMPS @ 480V	
LOW MAST	#1	6	140	0.29	1.74
LOW MAST	#2	6	140	0.29	1.74

SERVICE POINT DESIGN LOADINGS:

SECONDARY POWER CONTROLLER	AMPERAGE @ 480V/1ø	kVA @ 480/1ø
SPC-1	3.50	1.68

STATE OF LOUISIANA
KENNETH W. POWERS
License No. 39550
PROFESSIONAL ENGINEER
IN
ELECTRICAL ENGINEERING

4/21/21

SHEET NUMBER 30

PARISH: ASCENSION
CITY: GONZALES, LA
PROJECT: MA-18-11

DESIGNED: KWP
CHECKED: AMG
DETAILED: PWL
CHECKED: RPO
DATE: APRIL 2021
SHEET: 1 OF 1

REVISION DESCRIPTION | DATE | NO. | BY

ELECTRICAL SCHEMATIC

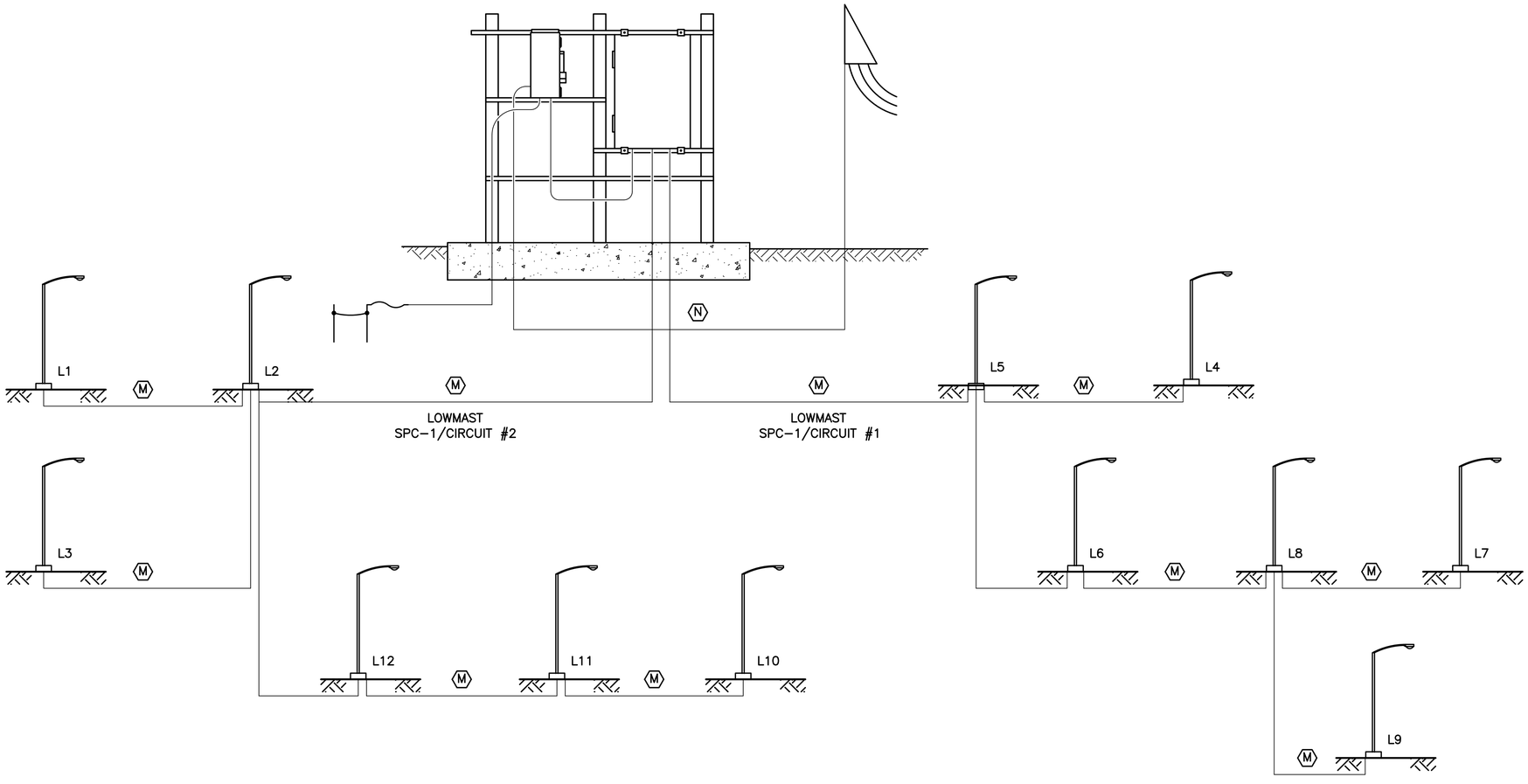
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT

SECONDARY POWER CONTROLLER "SPC-1"

RISER DIAGRAM
(FRONT VIEW)



LEGEND:

- CONDUIT WITH CONDUCTORS, PVC, RGS, OR POLYETHYLENE (404, 406, 409-410, 413)
- ELECTRICAL SERVICE, 240/480 VOLT, I PHASE, CENTER-TAP DELTA, 3 WIRE
- GROUND POINT
- NEW LOWMAST LIGHTING (304,305)
- SECONDARY POWER CONTROLLER
- SAFETY SWITCH
- NEW

* NUMBER(S) THAT ARE SHOWN IN PARENTHESIS CORRESPOND TO ELECTRICAL EQUIPMENT ITEMS LISTED ON PLAN SHEET 29.

ITEM NO.	LABEL	CONDUIT WITH
406, 410-413	M	CONDUIT WITH CONDUCTORS (PVC) (2") (2#6, 1#6 BARE STRANDED GROUND)
404, 410, 412-413	N	CONDUIT WITH CONDUCTORS (RGS) (2") (2#2 1#6 BARE STRANDED GROUND)

STATE OF LOUISIANA
KENNETH W. POWERS
License No. 39558
PROFESSIONAL ENGINEER
IN
ELECTRICAL ENGINEERING

4/21/21

SHEET NUMBER 31

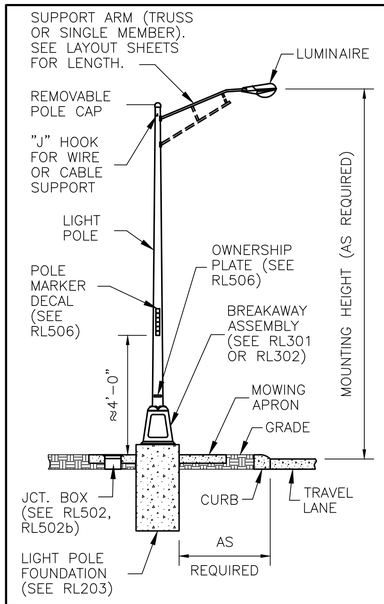
PARISH	ASCENSION
CITY	GONZALES, LA
PROJECT	MA-18-11
DESIGNED / CHECKED	KWP / AMG
DETAILED / CHECKED	PML / RPO
DATE / SHEET	APRIL 2021 / 1 OF 1

REVISION DESCRIPTION | DATE | NO. | BY

RISER DIAGRAM
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT



LUMINAIRE LOWERING SYSTEMS NOT REQUIRED. SEE PLAN LAYOUT SHEETS FOR ADDITIONAL LUM. INFORMATION.

POLE AND HARDWARE SHALL CONFORM TO AASHTO–AGC–ARTBA PUBLICATION "A GUIDE TO STANDARDIZED HIGHWAY LIGHTING POLE HARDWARE" – LATEST EDITION (ARTBA TECHNICAL BULLETIN NO. 270) EXCEPT AS NOTED.

POLE DESIGN SHALL IN ACCORDANCE WITH AASHTO PUBLICATION "STD. SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HWY. SIGNS, LUMINAIRES AND TRAFFIC SIG." – LATEST EDITION. POLES SHALL BE ALUMINUM OR GALVANIZED STEEL AND BE EQUIPPED WITH AASHTO APPROVED BREAKAWAY ASSEMBLY.

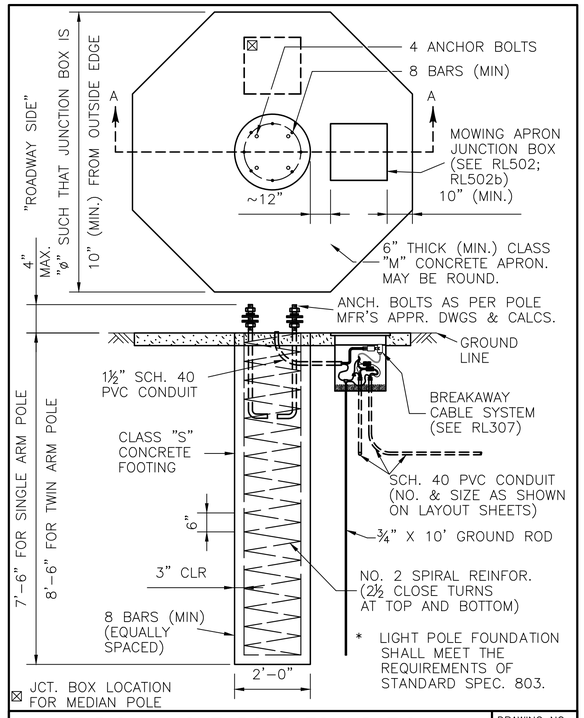
THREE (3) AWG NO. 12 CONDUCTORS (BLACK, RED, AND GREEN) SHALL BE INSTALLED TO EACH LUMINAIRE TO CONNECTIONS IN BASE (NOTE: WHEN A MOD. BKWY. CBL. SYS. (SEE RL307) IS INSTALLED, A 3–CONDUCTOR SOOW CABLE PROV. BY THE CBL. SYS. MFR. SHALL BE INSTALLED IN LIEU OF SEPARATE CONDUCTORS).

AVOID PLACING POLES BETWEEN 2' AND 12' FROM EDGE OF SHOULDER ON MAIN ROADS HAVING SIDE SLOPES OF 4:1 OR GREATER.

SOME RL DETAILS MAY REFER TO OTHERS.

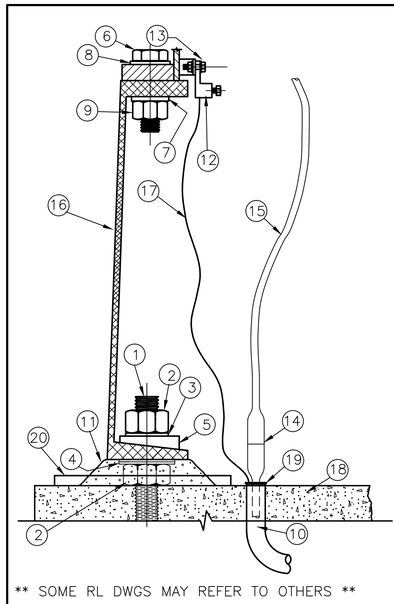
TYPICAL LIGHT POLE INSTALLATION
(SIDE GROUND MOUNTING)

DRAWING NO. RL101f 04/09



TYPICAL LIGHT POLE FOUNDATION
(WITH JUNCTION BOX IN APRON; NO SLOPE)

DRAWING NO. RL203 07/15

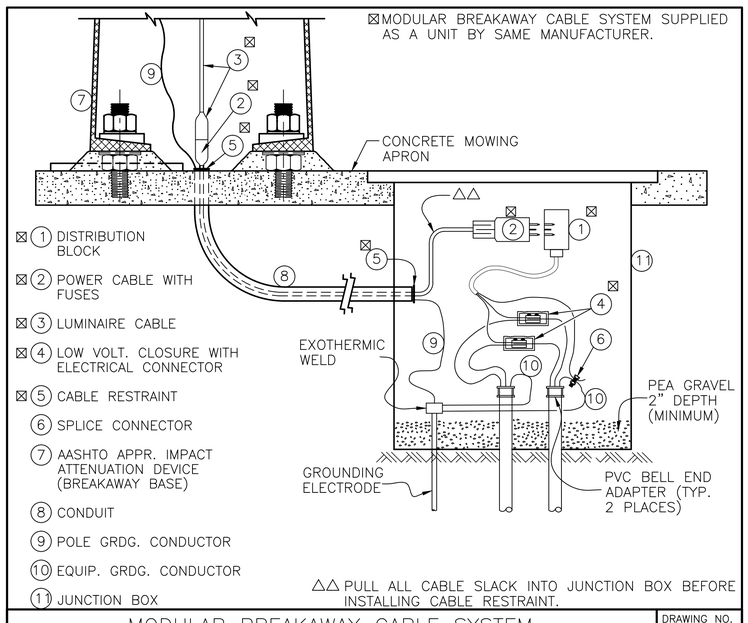


** SOME RL DWGS MAY REFER TO OTHERS **

1. 4 ANCHOR BOLTS
2. 8 ANCHOR BOLT HEX NUTS
3. 4 ANCHOR BOLT LOCK WASHERS
4. 4 ANCHOR BOLT FLAT WASHERS
5. 4 ANCHOR BOLT HOLD DOWN WASHERS
6. 4 HEX HEAD BASE BOLTS
7. 4 BASE BOLT LOCK WASHERS
8. 4 BASE BOLT FLAT WASHERS
9. 4 BASE BOLT HEX NUTS
10. 1½" DIA. SCH. 40 PVC CONDUIT TO JUNCTION BOX (SEE RL307)
11. NONSHRINK GROUT
12. POLE GROUND LUG (EQ. TO OZ/GEDNEY–NEER MODEL #XLH)
13. S.S. HEX BOLT, NUTS, & WASHERS
14. BKWY. CABLE SYS. (SEE RL307)
15. LUMINAIRE CABLE (SEE RL307) (SECURE CABLE TO POLE)
16. BKWY. TRANS. BASE CONFORMING TO "STD. SPECS. FOR STRUCTURAL SUPPORTS FOR HWY. SIGNS, LUM., AND TRAFFIC SIGNALS" – LATEST EDITION & FHWA REQUIREMENTS.
17. POLE GROUNDING CONDUCTOR
18. CONCRETE FOUNDATION
19. CABLE RESTRAINT (SEE RL307)
20. DRAIN PIPE

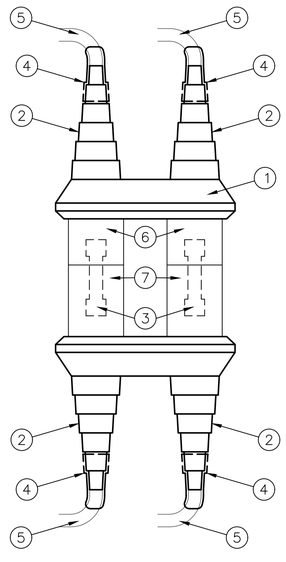
TYPICAL BREAKAWAY TRANSFORMER BASE AND LIGHT POLE CONNECTIONS

DRAWING NO. RL301 04/10



MODULAR BREAKAWAY CABLE SYSTEM
(TYPICAL; LOW MAST)

DRAWING NO. RL307 10/17



1. FUSEHOLDER, IN–LINE, 2 POLE, 30 AMP, 600 VAC, 200 kAIC RATED, WATERTIGHT, UL LISTED (EQUAL TO LITTELFUSE/POWR–GARD MODEL LEY–XX–WPB1); "XX" – CONTRACTOR MUST SELECT THE APPROPRIATE CONNECTOR TERMINALS TO ACCOMMODATE LINE AND LOAD CONDUCTOR SIZES.
2. WEATHERPROOF INSULATING BOOT (EQUAL TO LITTELFUSE/POWR–GARD MODEL WPB1)
3. FUSE, CLASS CC, 5 AMP, 600 VAC, DUAL ELEMENT, TIME DELAY, 200 kAIC RATED, U.L. LISTED FOR BRANCH CKT. PROTECTION (EQUAL TO LITTELFUSE/POWR–PRO MODEL CCMR5)
4. MECHANICAL OR HEAT SHRINK SEAL
5. CONDUCTOR (SEE PLAN LAYOUT SHEETS FOR SIZE AND TYPE. NOTE: CONDUCTOR SIZE SHALL NOT EXCEED MANUFACTURERS RECOMMENDATIONS FOR DEVICE.
6. LOAD SIDE
7. LINE SIDE

FUSE CONNECTOR FOR NON–BREAKAWAY POLES
(TYPICAL)

DRAWING NO. RL307b 02/12

NOTES:

1. POLE DESIGN AND DETAILS MUST BE IN ACCORDANCE WITH THE 2013 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.
2. SHAFT TO BE CLASS S CONCRETE AND CONSTRUCTED IN ACCORDANCE WITH SECTION 803 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES (LSSRB), 2016 EDITION.
3. POLE SHAFT TO BE A572 GR65.
4. POLE BASE TO BE A36.
5. ARM ATTACHMENT TO BE A27 GR65–35 OR BETTER.
6. HIGH STRENGTH BOLTS ARE TO BE A325.
7. ANCHOR BOLTS TO BE F1554 GR55 MIN.
8. STRUTS TO BE A36.
9. ARM PIPE TO BE SCHEDULE 80, A36.
10. POLE, BASE, ARM, AND ATTACHMENTS TO BE GALVANIZED, IN ACCORDANCE WITH A123.
11. HARDWARE TO BE IN ACCORDANCE WITH A153.
12. WELDING TO BE IN ACCORDANCE WITH THE LATEST EDITION OF AWS D1.1.
13. MINIMUM STEEL THICKNESS TO BE $\frac{3}{16}$" INCH.

STATE OF LOUISIANA
KENNETH W. POWERS
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PROFESSIONAL ENGINEER
IN
ELECTRICAL ENGINEERING
4/21/21

SHEET NUMBER 32

PARISH	ASCENSION	CITY	GONZALES, LA
PROJECT	MA–18–11		
DESIGNED	KWP	CHECKED	AMG
DETAILED	PWL	CHECKED	RPO
DATE	APRIL 2021	SHEET	1 OF 5

REVISION DESCRIPTION | DATE | NO. | BY

ELECTRICAL LIGHTING DETAILS

HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT

MODULAR BREAKAWAY CABLE SYSTEM

A MODULAR COLOR–CODED CABLE SYSTEM CONSISTING OF RUBBER CORDS W/ INTEGRAL MOLDED WATERTIGHT SUBMERSIBLE CONNECTORS, FUSES, SUBMERSIBLE SPLICE CONNECTORS, AND CABLE RESTRAINTS SHALL BE INSTALLED IN THE JUNCTION BOX IN THE POLE BASE MOWING PAD. THE SYSTEM SHALL PROVIDE POWER FROM THE JUNCTION BOX TO THE LUMINAIRE(S). CABLES SHALL EXTEND FROM THE JUNCTION BOX AT THE POLE BASE TO LUMINAIRE(S) AT THE TOP OF POLE. ONE (1) SUCH SYSTEM SHALL BE INSTALLED AT EACH GROUND–MOUNTED BREAKAWAY POLE INSTALLATION. POLE CABLE SYSTEM SHALL CONSIST OF THE FOLLOWING MINIMUM COMPONENTS:

DISTRIBUTION BLOCK

DISTRIBUTION BLOCK SHALL CONTAIN A 3–WIRE FEMALE OUTLET INTEGRALLY MOLDED TO A 2' (MIN.) LENGTH OF 3 SEPARATE #10 DLO CABLES. BLOCK SHALL BE WATERTIGHT AND SUBMERSIBLE WHEN THE INTEGRAL FUSED PLUG ON THE POWER CABLE IS ENGAGED AND FULLY SEATED. DIMENSIONS SHALL BE APPROXIMATELY 2¼"X3"X3". DIMENSIONS ARE CRITICAL DUE TO LIMITED SPACE IN THE JUNCTION BOX.

POWER CABLE

CABLE SHALL BE AN 11' (MIN.) 14/3 SOWA CABLE WITH MOLDED RED MALE FUSED PLUG ON ONE (1) END AND MOLDED ORANGE FEMALE CONNECTOR ON THE OTHER END. MALE PLUG SHALL CONTAIN 2 FUSES THAT ARE PROVIDED BY CABLE SYSTEM MANUFACTURER. FUSES SHALL HAVE AMPACITY AS FOLLOWS: 5 AMP FOR SINGLE LUMINAIRE; 10 AMP FOR TWIN LUMINAIRE. MALE PLUG SHALL PROVIDE A WATERTIGHT SUBMERSIBLE SEAL WHEN MATED TO DISTRIBUTION BLOCK. FEMALE CONNECTOR SHALL PASS THROUGH A STANDARD 1" SCHEDULE 40 PVC CONDUIT OR LFNC–B (WHERE SPECIFIED). CONTRACTOR SHALL INSTALL RETAINING STRAPS AT EACH END OF CONDUIT TO PREVENT MOVEMENT AND FORCE DISCONNECTON UPON POLE BREAKAWAY.

LUMINAIRE CABLE

CABLE SHALL BE A VARIABLE LENGTH 14/3 SOWA CABLE WITH MALE PLUG MOLDED IN ORANGE TO MATCH ORANGE END OF POWER CABLE. CONNECTOR SHALL REQUIRE A 25 LB. (MAX.) FORCE TO MATE OR DISENGAGE FROM FEMALE END. WHEN ENGAGED, CONNECTION SHALL BE WATERTIGHT AND SUBMERSIBLE.

DISTRIBUTION BLOCK AND CONNECTORS SHALL BE FABRICATED OF THERMOSETTING SYNTHETIC POLYMER, NON–FLAME SUPPORTING, AND SHALL REMAIN FLEXIBLE OVER A TEMPERATURE RANGE OF –40°F TO 190°F.

MODULAR BREAKAWAY CABLE SYSTEM
(TYPICAL; LOW MAST)

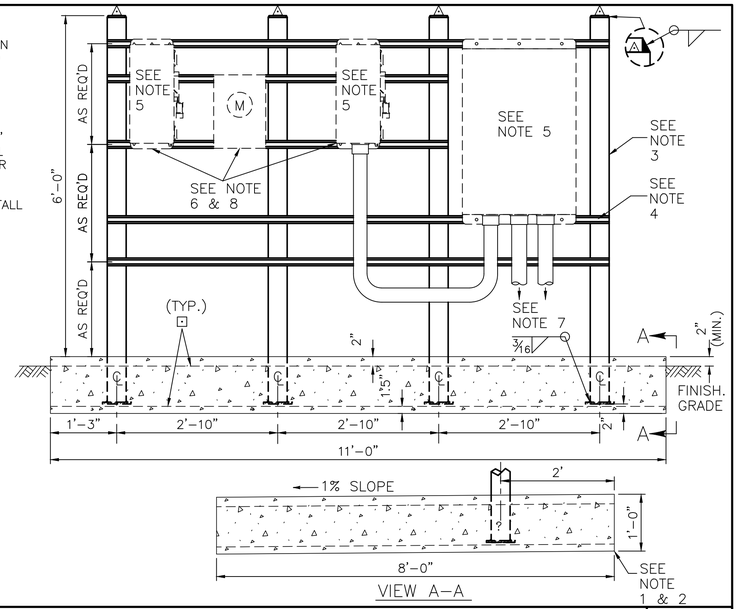
DRAWING NO. RL308 03/12

NOTES;
1. CONTRACTOR TO REMOVE 1'–0" (MIN.) OF SOIL FROM FOUNDATION AREA & BACKFILL W/COMPACTED MATERIAL AS PER LADOTD STD. SPECIFICATIONS.
2. CLASS "A" CONCRETE.
3. STEEL TUBE, 4"X4"X8GA WALL THICK. (EQ. TO ALLIED "GATOR–SHIELD"; CONT. WELD 4"x4"x1/4" TOP AND 6"x6"X1/4" BOT. STEEL PLATES; H.D.G. ALL PLATES AFTER FABRICATION.
4. 1⅝" UNISTRUT; S.S. (EQ. TO UNISTRUT MD#P1000, TYP.); INSTALL ADDITIONAL UNISTRUT AS REQ'D.
5. SEE DETAIL RL407 FOR ADD'L SPECS.
6. CONTRACTOR SHALL PROPOSE ROUTING OF RIGID CONDUIT SYS. FROM SERV. & BETWEEN THIS EQUIP. SEE PLANS FOR CONDUIT & WIRE INFO. THE INSTALLATION IS SUBJECT TO APPROVAL OF THE PROJECT & DESIGN ENGINEER.
7. ELEC. SERV. TO LTG. LOADS. SEE PLANS FOR CONDUIT & WIRE INFO. (# OF CONDUITS MAY VARY)
8. METER SOCKET PROVIDED & INSTALLED BY CONTRACTOR. METER PROV. BY UTILITY CO. SUBMITTAL REQUIRED.

△¼" PLATE

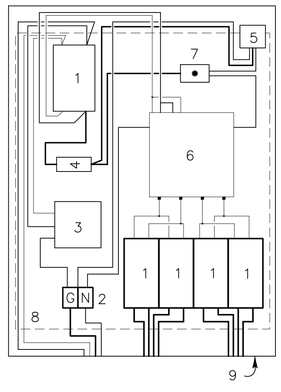
⊡6 X 6 – W6 X W6 WELDED WIRE REINFORCEMENT

* REFER TO OTHER "RL DETAILS" FOR ADD'L REQUIREMENTS.



SUPPORT STRUCTURE
(SERVICE DISCONNECT WITH UTILITY METERING AND SECONDARY POWER CONTROLLER)

DRAWING NO. RL403b 05/16

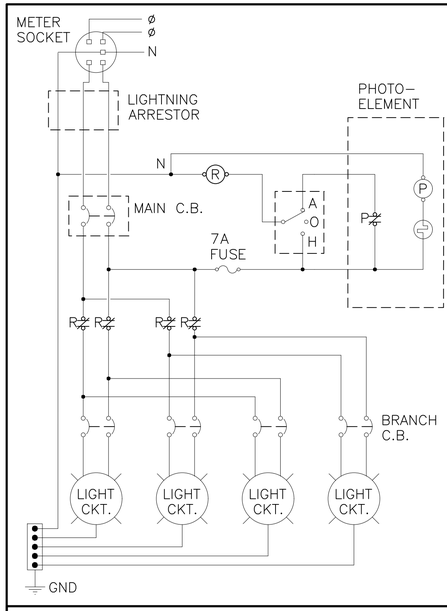


NOTE:
1. STAIN. STEEL HARDWARE SHALL BE MARINE GRADE W/ 30,000 PSI (MIN.) YIELD STRENGTH.
2. ALLOW 2" (MIN.) CLEARANCE BTWN. COMPONENTS; 4" (MIN.) CLEARANCE ON ALL SIDES.
3. INSTALL PERMANENT "HAND", "OFF", "AUTO" LABELS INDICATING SWITCH POSITIONS.
4. REFER TO OTHER ELEC. DETAILS FOR ADDITIONAL INFORMATION AND/OR SPECIFICATIONS.

1. CIRCUIT BREAKERS: 600 VAC RATED, 14kAIC (MIN.) @ 480 VAC, 2 POLE (SEE CIRCUIT SCHEDULE FOR CIRCUIT BREAKER TRIP AMPS)
2. GRDG. & NEUT. TERMINAL BLOCKS: PWR. DIST. BLOCK, 2P, INTERM., BOX TO BOX, CU STUD, 600 V, W/SAF. CVRS. (EQ. TO FERR.–SHAW. MD#66512–08570); MNT. W/S.S. HARDWARE.
3. SURGE ARRESTOR: 650 VAC RATED PHASE TO GND. (MAX.), 50/60 HZ, 40kA/ø (MAX.) SURGE AMPS, THERMAL FUSING, U.L. LISTED (EQUAL TO SQUARE D MODEL #SDSA3650)
4. CONTROL CIRCUIT FUSE & FUSEHOLDER: FUSE: CLASS CC, FAST–ACTING, 600 VAC, 7 AMP, U.L. LISTED (EQUAL TO COOPER–BUSSMANN MD#KTK–R–7); FUSEHOLDER: CLASS CC, 30 A, 600 VAC, U.L. LISTED, 1 POLE, COPPER BOX LUG TERMINALS (EQUAL TO COOPER–BUSSMANN MD# BC6031B)
5. PHOTO–ELECTRIC CONTROL: TWIST LOCK W/ RECEPTACLE, MOUNTING BRKT., SOLID STATE, HERMETICALLY SEALED, 105–285 VAC, 1800 VA, TIME DELAY SWITCHING, N.C. CONTACT, OPER. SWITCH LEVELS 2.0 F.C. ON/OFF + 20%, TEMP. RANGE –40°F TO +140°F, DRILL 1¼" DIA. HOLE IN CABINET, CEMENT PLEXIGLASS OVER HOLE, INSTALL ASSEMBLY IN CABINET W/PHOTOCELL CONTROL WINDOW ¼" FROM HOLE, POSITION PHOTOCELL CONTROL WINDOW EYE TO THE NORTH (EQ. TO PRECISION MD #ECDV–C–P–TD)
6. LIGHTING CONTACTOR: ELECTRIC. HELD, N.O. CONTACTS, 600 VAC RATED, 240 VAC COIL, HIGH PRESSURE BOX LUG TERMINALS; NUMBER & CURRENT RATING OF CONTACTS AS SHOWN ON CKT. SCHED. (EQ, TO SQUARE D CLASS 8903)
7. HAND–OFF–AUTOMATIC SWITCH & SEALING BOOT: SWITCH, TOGGLE, SPDT, 10A @ 250 VAC, CENTER–OFF, MAINTAINED CONTACTS, CHROME LEVER, NEOPRENE SEALING BOOT (EQ. TO APEM COMPONENTS MD#3539–001B000 AND MD#U2252). MOUNT SWITCH IN 1–GANG BOX WITH BLANK COVER (EQ. TO CARLON MD#E981EFN AND MD#E980CN–CAR). TAP HOLE IN COVER CENTER TO MOUNT SWITCH. SEE NOTE #3.
8. MOUNTING PLATE: ½" INSUL. MTG. BOARD, PHEN. LAMIN., NEMA GRADE X (EQUAL TO PORT PLASTICS MD# NP610), TAN NAT. COLOR, MOUNT TO BOSS FEET ON BOX W/ S.S. FLAT HEAD SCREWS, CTR–SINK HOLES TO MATCH SCREWS
9. CABINET: CAST ALUMINUM OR STAINLESS STEEL, WALL MOUNT, HINGED DOOR WITH NEOPRENE GASKET, DOOR LOCK AND KEY, TEE VENT, 24"W X 35"H X 14"D. (EQUAL TO SECO SOUTH MODEL #PW36WM)

LIGHTING CONTROLLER LAYOUT
(TYPICAL; STRUCTURE MOUNT W/ HAND–OFF–AUTOMATIC CONTROL SWITCH)

DRAWING NO. RL404d 12/09



NOTES:
1. SERVICE: 240/480 VOLT, GROUNDED, 1ø, 60 HZ.
2. WIRING SCHEMATIC SHOWN IS A GENERAL WIRING LAYOUT. NUMBER OF CIRCUIT BREAKERS AND RELAY CONTACTS MAY VARY.
3. CONTRACTOR SHALL OBTAIN APPROVAL FROM UTILITY CO. BEFORE INSTALLATION.
4. REFER TO OTHER ELEC. DETAILS FOR ADDITIONAL INFORMATION AND/OR SPECIFICATIONS.
5. H–O–A = HAND–OFF–AUTO SWITCH.
6. METER SOCKET TO BE FURNISHED AND INSTALLED BY CONTRACTOR AS PER UTIL. CO. REQUIREMENTS; METER TO BE FURNISHED AND INSTALLED BY UTIL. CO.

* SCHEMATIC SHOWN AT NIGHT WITH LIGHTS ON.

LIGHTING CONTROLLER SCHEMATIC
(TYPICAL; UTILITY METERING W/ HAND–OFF–AUTOMATIC CONTROL SWITCH)

DRAWING NO. RL405d 12/09

STATE OF LOUISIANA
KENNETH W. POWERS
License No. 39559
PROFESSIONAL ENGINEER IN
ELECTRICAL ENGINEERING
4/21/21

SHEET NUMBER 33

P.ARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA–18–11

DESIGNED	CHECKED	DETAILED	CHECKED	DATE	SHEET
KMP	AMG	PWL	RPO	APRIL 2021	2 OF 5

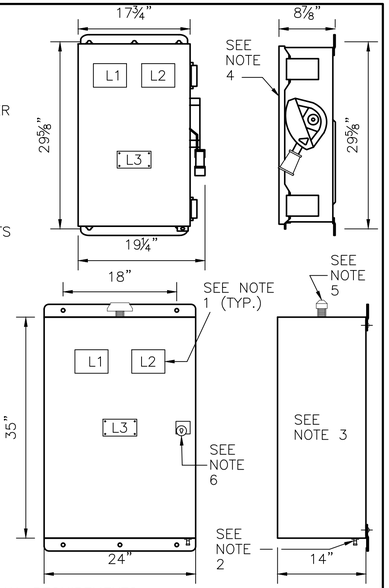
NO.	DATE	REVISION DESCRIPTION	BY

ELECTRICAL LIGHTING DETAILS
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT

NOTES;
1. FOR LABEL "L1", "L2", & "L3" SEE DETAIL RL805 FOR ADDITIONAL REQUIREMENTS. ACTUAL LABEL LOCATIONS MAY VARY.
2. UNIV. DRAIN/BREATH. (EQ. TO APPLETON MD# ECDB50B); THREADED HUB & REDUCER BUSHING (EQ. TO SQUARE D MD# B075 & CROUSE-HINDS MD# RE21)
3. CABINET ENCL., WALL MNT., UPPER & LWR. WALL MNT. BKTS. HAVING 3 PRE-DRILLED ⅜"ø HOLES, HINGED DOOR W/ NEOPRENE GASKET, 4 – 5/16" S.S. CARRIAGE BOLTS (EQ. TO SECO SOUTH MD# PW36WM); BOLTS SHALL BE USED FOR SECURING WALL MNT. BRACKETS TO ENCL. & AS "BOSS" FEET FOR INTER. MTG. PLATE. BOLT LENGTHS SHALL BE AS REQUIRED.
4. SAFETY SWITCH, 200 AMP, NON-FUSED, 3 POLE, 600 VAC, TYPE 316 S.S. ENCL., NEUTRAL AND EQUIPMENT GROUNDING KITS (EQUAL TO SQUARE D MD# HU364SS, #SN20A, AND #PKOGTA2).
5. TEE VENT, 1½", W/ THREADED NIPPLE (EQUAL TO SECO SOUTH MD# 11338); CENTER VENT ON TOP OF CABINET ENCLOSURE.
6. ENCLOSURE LOCK (EQ. TO CCL SECURITY PROD. MD#R357SGS; ENCL. KEY, LONG (EQ. TO CCL SECURITY PROD. MD#R4266); PROVIDE 2 KEYS (MIN.) W/ EACH LOCK.

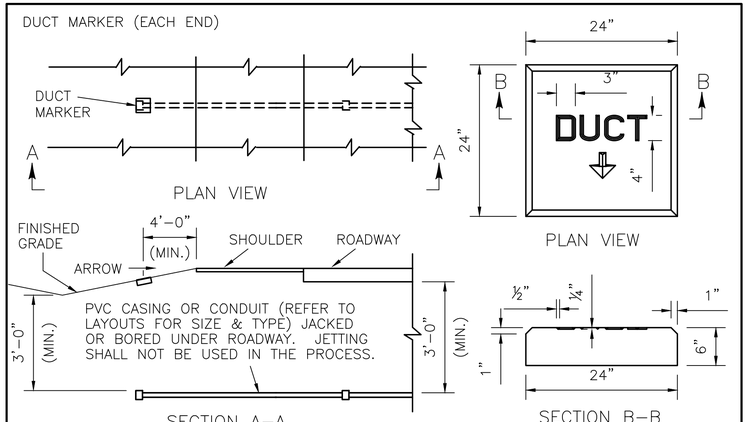


* REFER TO OTHER "RL DETAILS" FOR ADDITIONAL REQUIREMENTS.

ELECTRICAL SERVICE EQUIPMENT
(SERVICE DISCONNECT AND SECONDARY POWER CONTROLLER)

DRAWING NO. RL407 12/09

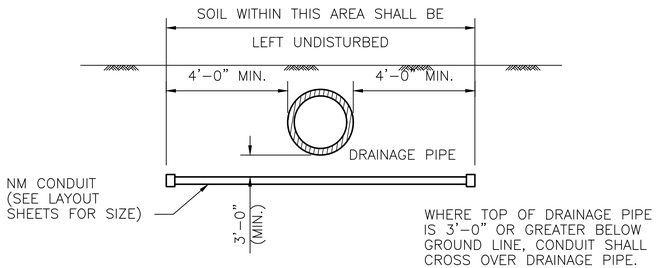
DUCT MARKER (EACH END)



THE ENDS ABOVE OF ALL ROADWAY DUCT CROSSINGS SHALL BE MARKED WITH A CONCRETE OR POLY. CONCRETE SLAB 6" THICK BY 2 FEET SQUARE, WITH 1" BEVELED EDGES, AND 4" HIGH BY 3" WIDE LETTERS HAVING ½" WIDE BY ¼" DEEP STROKE (OR AS LARGE AS THE AVAILABLE SPACE PERMITS). THE MARKER SLAB SHALL EXTEND APPROX. ½" ABOVE FINISHED GRADE. THE WORD "DUCT", THE NUMBER OF DUCTS BENEATH THE MARKER, THE SIZE OF EACH DUCT, AND AN ARROW INDICATING THE DIRECTION OF EACH DUCT SHALL BE IMPRESSED ON THE SURFACE OF EACH MARKER SLAB. INSTALL THE SLAB WITH THE ARROW PARALLEL AND IN THE DIRECTION OF ROADWAY DUCT CROSSING AS SHOWN ABOVE. A SUBMITTAL IS REQUIRED FOR APPROVAL PRIOR TO INSTALLATION.

UNDER ROAD CROSSING AND DUCT MARKER
(TYPICAL)

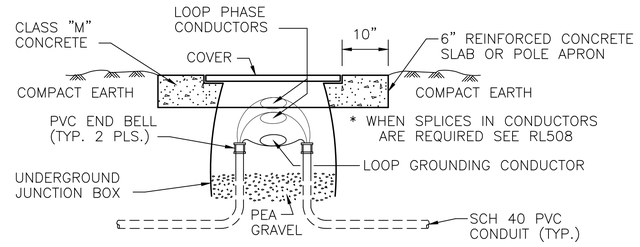
DRAWING NO. RL501 12/09



WHERE TOP OF DRAINAGE PIPE IS 3'–0" OR GREATER BELOW GROUND LINE, CONDUIT SHALL CROSS OVER DRAINAGE PIPE.

DRAINAGE PIPE CROSSING
(TYPICAL)

DRAWING NO. RL501a 07/15



NOTE: CONTRACTOR SHALL INSTALL CONDUITS AT AN APPROPRIATE DEPTH (≥3'–0") TO ACHIEVE REQUIRED VERTICAL ALIGNMENT OF CONDUITS INTO JUNCTION BOX.

UNDERGROUND JUNCTION BOX:
JUNCTION BOX SHALL BE FABRICATED FROM FIBERGLASS REINFORCED POLYMER CONCRETE OR U.V. STABILIZED HIGH-DENSITY POLYETHYLENE HAVING U.V. STABILIZED GREEN, BLACK, OR GREY COLOR. BOX SHALL BE INSTALLED IN A 6" THICK CONCRETE PAD UNLESS SHOWN OTHERWISE ON THE PLANS. BOX AND COVER SHALL BE DESIGNED FOR USE IN ROADWAY APPLICATIONS AND BE HEAVY DUTY RATED 150 PSI OVER A 10"X10" AREA (MINIMUM). ALL BOX AND COVER HARDWARE SHALL BE MARINE DUTY STAINLESS STEEL WITH A MINIMUM 30,000 P.S.I. YIELD STRENGTH. BOX COVER SHALL BE FABRICATED FROM FIBERGLASS REINFORCED POLYMER CONCRETE AND SHALL ALSO INCLUDE STANDARD "LIGHTING" LOGO. UNLESS NOTED OTHERWISE, BOX SHALL HAVE INTERIOR DIMENSIONS 12"(LENGTH) X 12"(WIDTH) X 10"(DEPTH), WITH DEPTH MEASURED FROM BOTTOM OF COVER TO BOTTOM OF BOX WHILE COVER IS INSTALLED. BOX AND COVER SHALL COMPLY WITH THREE (3) POSITION TESTING AS REQUIRED BY UNDERWRITER LABORATORIES (U.L.) OR WESTERN UNDERGROUND COMMITTEE (W.U.C.), GUIDELINE 3.6. FOR EQUIPMENT NOT U.L. OR W.U.C. 3.6 COMPLIANT, PROOF OF EQUIVALENT TESTING SHALL BE SUPPLIED BY A REGISTERED PROFESSIONAL ENGINEER. ALL DIMENSIONS ARE MINIMUM.

UNDERGROUND JUNCTION BOX
(TYPICAL; WITH FIBERGLASS REINFORCED POLYMER CONCRETE COVER)

DRAWING NO. RL502 04/10

STATE OF LOUISIANA
KENNETH W. POWERS
License No. 39550
PROFESSIONAL ENGINEER IN
ELECTRICAL ENGINEERING

4/21/21

SHEET NUMBER 34

P.ARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA-18-11

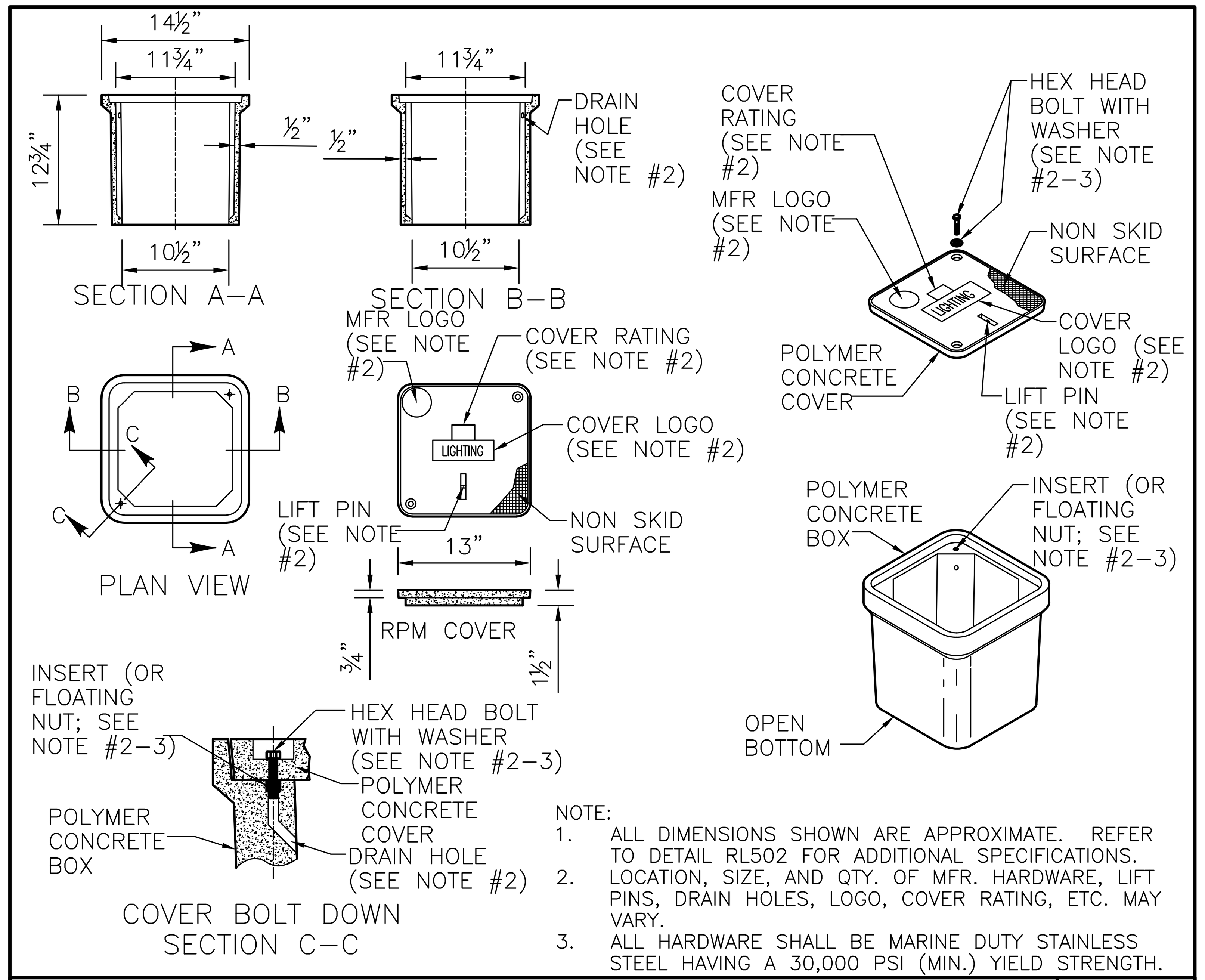
DESIGNED	CHECKED	DETAILED	CHECKED	DATE	SHEET
KWP	AMG	PWL	RPO	APRIL 2021	3 OF 5

NO.	DATE	REVISION DESCRIPTION	BY

ELECTRICAL LIGHTING DETAILS
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

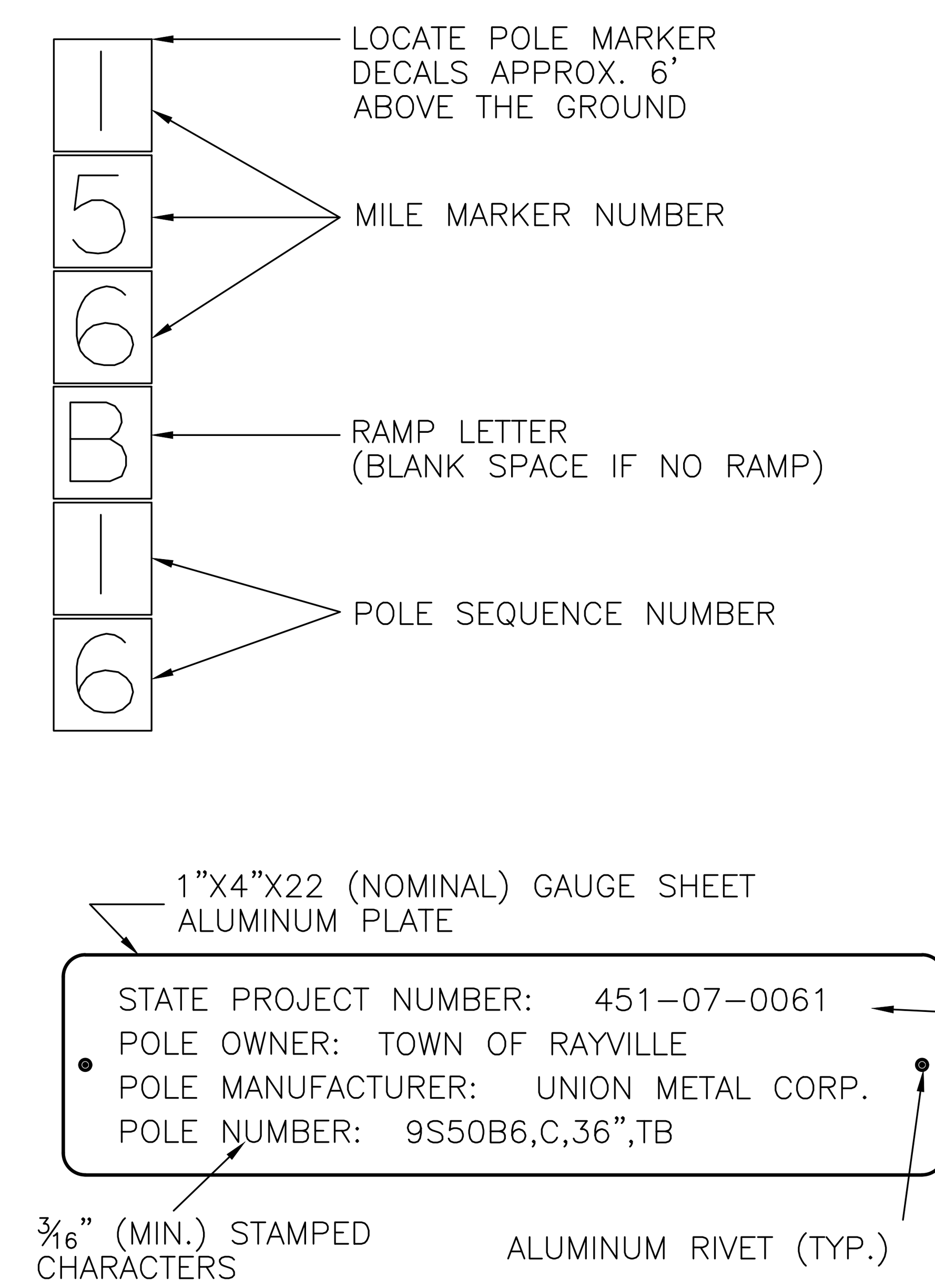
VOLKERT



NOTE:
1. ALL DIMENSIONS SHOWN ARE APPROXIMATE. REFER TO DETAIL RL502 FOR ADDITIONAL SPECIFICATIONS.
2. LOCATION, SIZE, AND QTY. OF MFR. HARDWARE, LIFT PINS, DRAIN HOLES, LOGO, COVER RATING, ETC. MAY VARY.
3. ALL HARDWARE SHALL BE MARINE DUTY STAINLESS STEEL HAVING A 30,000 PSI (MIN.) YIELD STRENGTH.

UNDERGROUND JUNCTION BOX
(JB–1)

DRAWING NO. RL502b 06/07



THE POLE MARKERS SHALL BE 2"X4" AND HAVE A CHARACTER HEIGHT OF 3" (MIN.).

THE MARKERS SHALL HAVE BLACK LETTERS AND A REFLECTIVE YELLOW BACKGROUND. THEY SHALL BE THE SELF–STICKING, HEAVY DUTY INDUSTRIAL TYPE. (SEE MARKER LEGEND)

THE MARKERS SHALL BE LOCATED APPROX. 6'–0" ABOVE THE GROUND AND AT A 45° ANGLE FACING ONCOMING TRAFFIC.

POLE SEQUENCE NUMBERING:
FOR EACH LIGHTING CIRCUIT, POLE SEQUENCE NUMBER "01" SHALL BE THE LAST POLE ON THE CIRCUIT FARTHEST AWAY FROM THE SERVICE POINT AND INCREMENTED BY 1 TRAVELING BACK TOWARDS THE SERVICE POINT.

SAMPLE ENGRAVING WITH PROJECT INFORMATION. SEE ARTBA PUBLICATION 270 FOR DESCRIPTION OF THE DIFFERENT AASHTO POLE NUMBERS (SEE RL506a FOR MORE DETAILS)

POLE MARKER DECAL AND OWNERSHIP PLATE
(TYPICAL; LOWMAST)

DRAWING NO. RL506 10/11

1ST & 2ND CHARACTER FOR WIND LOAD DESIGN
08 – 80MPH, 09 – 90MPH, 10 – 100MPH,
11 – 110MPH, 12 – 120MPH, 13 – 130MPH,
14 – 140MPH, 15 – 150MPH, ETC.

3RD CHARACTER FOR TYPE OF MATERIAL
"S" – STEEL
"A" – ALUMINUM

4TH & 5TH CHARACTER FOR MOUNTING HEIGHT
30, 40, 50, ETC.

6TH CHARACTER FOR BASE ASSEMBLY
"S" – SLIP BASE ASSEMBLY
"A" – ANCHOR BASE ASSEMBLY
"B" – BREAKAWAY BASE ASSEMBLY
"C" – ANCHOR BASE ASSEMBLY W/BREAKAWAY COUPLINGS

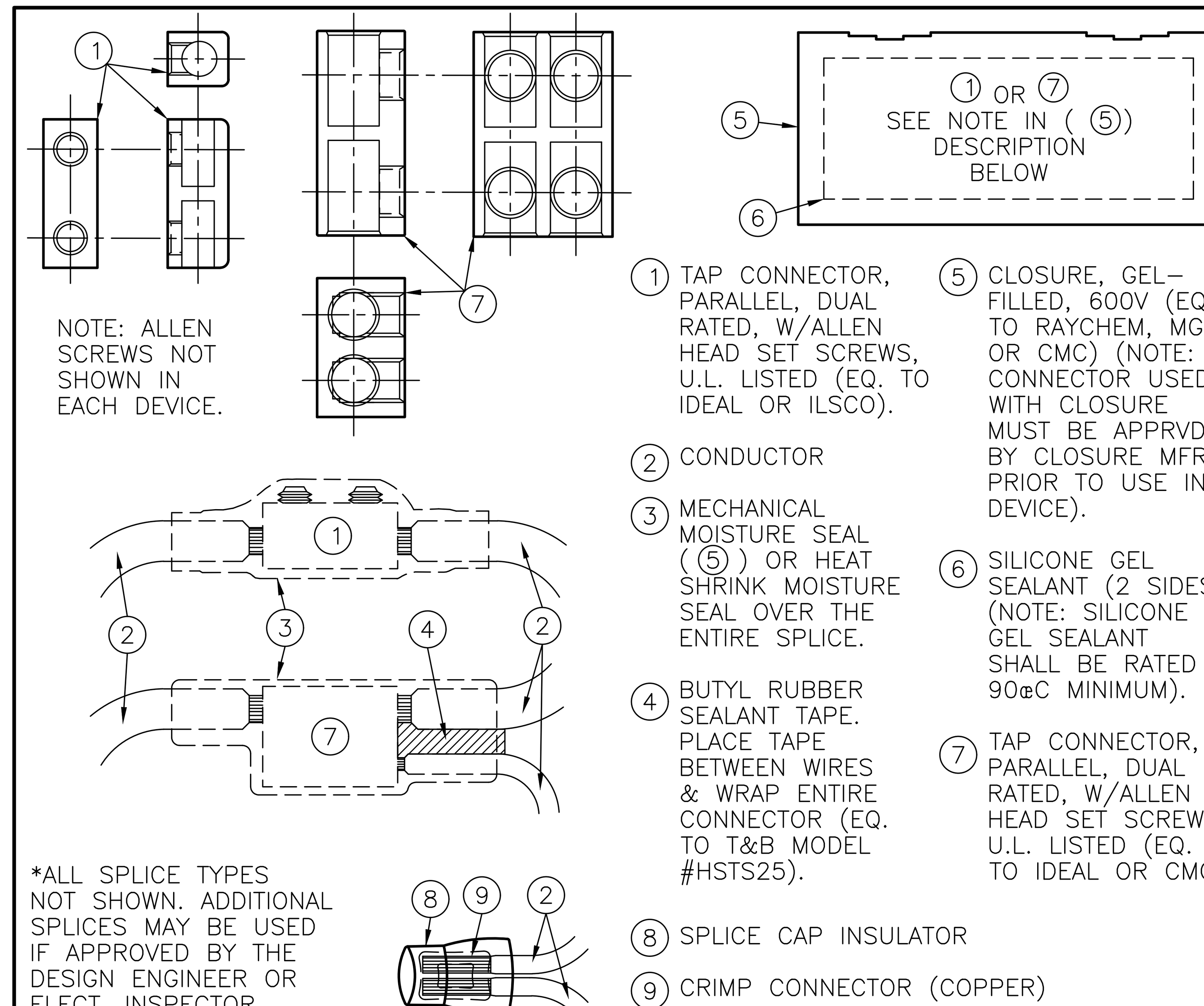
7TH – 10TH CHARACTER FOR LUMINAIRE SUPPORT ARM(S)
06, 08, 10, 12, 15 (FOR 1 ARM POLES)
06 – 06 , 08 – 08, 10 – 10,
12 – 12, 15 – 15 (FOR 2 ARM POLES)

ADDITIONAL SUFFIXES MAY BE AS FOLLOWS:

"C" – BOLT COVERS
"B" – SINGLE BALLAST ADAPTER
"B2" – TWIN BALLAST ADAPTER
"NH" – OMIT HANDHOLE
"NAB" – OMIT ANCHOR BOLTS
"P" – PAINTED POLE FOLLOWED BY COLOR
"X°" – HANDHOLE LOCATION OTHER THAN 90° (90° IS STANDARD LOCATION)
"CA" – CLAMP TYPE ARM ATTACHMENT (FOR ALUMINUM POLES ONLY)
"FI" – FULLY INTERCHANGEABLE POLES
"TB" – TRANSFORMER BASE WITH POLE

STANDARD POLE NUMBER FORMAT
(LOWMAST)

DRAWING NO. RL506a 10/07



*ALL SPLICE TYPES NOT SHOWN. ADDITIONAL SPLICES MAY BE USED IF APPROVED BY THE DESIGN ENGINEER OR ELECT. INSPECTOR.

1. TAP CONNECTOR, PARALLEL, DUAL RATED, W/ALLEN HEAD SET SCREWS, U.L. LISTED (EQ. TO IDEAL OR ILSCO).
2. CONDUCTOR
3. MECHANICAL MOISTURE SEAL (5) OR HEAT SHRINK MOISTURE SEAL OVER THE ENTIRE SPLICE.
4. BUTYL RUBBER SEALANT TAPE. PLACE TAPE BETWEEN WIRES & WRAP ENTIRE CONNECTOR (EQ. TO T&B MODEL #HSTS25).
5. CLOSURE, GEL–FILLED, 600V (EQ. TO RAYCHEM, MGè, OR CMC) (NOTE: CONNECTOR USED WITH CLOSURE MUST BE APPRVD. BY CLOSURE MFR. PRIOR TO USE IN DEVICE).
6. SILICONE GEL SEALANT (2 SIDES) (NOTE: SILICONE GEL SEALANT SHALL BE RATED 90°C MINIMUM).
7. TAP CONNECTOR, PARALLEL, DUAL RATED, W/ALLEN HEAD SET SCREWS, U.L. LISTED (EQ. TO IDEAL OR CMC).
8. SPLICE CAP INSULATOR
9. CRIMP CONNECTOR (COPPER)

SPLICE AND TAP CONNECTOR
(TYPICAL)

DRAWING NO. RL508 07/10

KENNETH W. POWERS, License No. 39559, PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING, STATE OF LOUISIANA
4/21/21

PARISH: ASCENSION
CITY: GONZALES, LA
PROJECT: MA–18–11

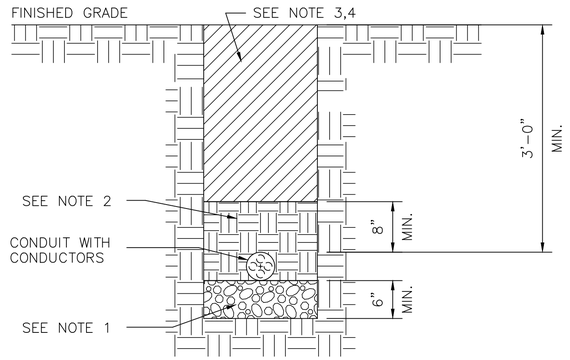
DESIGNED: KWP
CHECKED: AMG
DETAILED: PML
CHECKED: RPO
DATE: APRIL 2021
SHEET: 4 OF 5

NO. | DATE | REVISION DESCRIPTION | BY

ELECTRICAL LIGHTING DETAILS
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

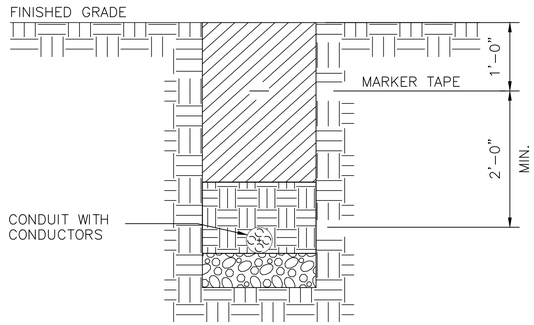
VOLKERT



NOTE:
1. INITIAL BACKFILL AND BEDDING OF TAMPED GRANULAR MATERIAL WHERE REQUIRED AND AS DIRECTED BY THE PROJECT ENGINEER. SEE SECTION 723 OF THE "STANDARD SPECIFICATIONS" FOR SPECIFICATIONS ON TAMPED GRANULAR MATERIAL.
2. FINAL BACKFILL FREE OF LARGE STONES, ROCKS, CLUMPS, AND DEBRIS.
3. ANY ASPHALT OR CONCRETE MATERIAL REMOVED DURING TRENCHING SHALL BE REPLACED WITH LIKE MATERIAL TO MATCH EXISTING.
4. SEE PLAN SPECIFICATIONS, GENERAL NOTES, LAYOUT SHEETS, AND DETAILS FOR ADDITIONAL INFORMATION.

TRENCHING DETAIL (TYPICAL)
(CONDUIT WITH CONDUCTORS RATED 600 VOLTS AND BELOW)

DRAWING NO. RL513 09/14



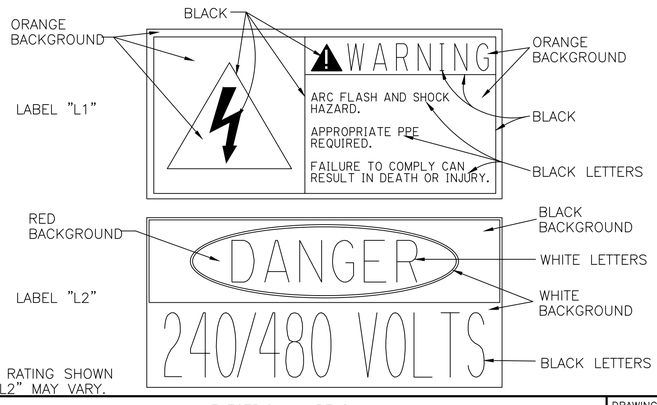
MARKER TAPE (UNDERGROUND):
MARKER TAPE SHALL BE UDG. DETECTABLE-TYPE, SHALL BE CONSTRUCTED FROM A FLEXIBLE AND DURABLE LAMINATE HAVING HIGH-VISIBILITY. MARKER TAPE SHALL ENDURE TEMPERATURE RANGES FROM -60°F TO 250°F (MINIMUM). MARKER TAPE SHALL BE 3" OR 6" WIDE, HAVE 5 MIL (MIN.) THICKNESS, AND BE PRINTED POLYETHYLENE WITH A METALLIC CORE (OR BACKING). MARKER TAPE SHALL PROVIDE FULL LATERAL COVERAGE, REMAIN CENTERED AND IN VERTICAL ALIGNMENT 12" BELOW FINISHED GRADE, AND BE CONTINUOUS OVER THE ENTIRE LENGTH (NOTE: FOR LARGE RACEWAY CONFIGURATIONS, MORE THAN ONE (1) WIDTH OF TAPE MAY BE REQUIRED). MARKER TAPE SHALL HAVE RED COLOR AS SPECIFIED BY A.W.P.A./U.L.C.C. UNIFORM COLOR CODE FOR BURIED ELECTRIC LINES AND HAVE TWO (2) CONTINUOUS AND PERMANENT LINES OF PRINTED WARNING AND IDENTIFICATION IN BOLD, BLACK, BLOCK-TYPE INK OVER THE ENTIRE TAPE LENGTH. THE TOP LINE SHALL READ "CAUTION". BOTTOM LINE SHALL READ "BURIED ELECTRIC LINE BELOW". MARKER TAPE SHALL HAVE PROVEN UNDERGROUND DURABILITY, RESIST ACIDS, ALKALIS, WATER, AND BE MANUFACTURED FROM A HIGH QUALITY MATERIAL THAT MEETS OR EXCEEDS ALL INDUSTRY MINIMUM SPECIFICATIONS TO ASSURE LONG-TERM PERFORMANCE.

MARKER TAPE (UNDERGROUND)
(TYPICAL; DETECTABLE TYPE)

DRAWING NO. RL520 05/11

LIGHTING CONTROLLERS, SWITCHBOARDS, CONTROL DESKS, DISCONNECTS, JUNCTION BOXES, GATE HOUSINGS, OTHER ENCLOSURES CONTAINING MOVABLE CONTACTS OR WIRE SIZE(S) #2 COPPER OR LARGER, AND WHERE SPECIFIED BY THE PROJECT ENGINEER SHALL BE FIELD MARKED ACCORDING TO NATIONAL ELECTRICAL CODE (N.E.C.) TO WARN QUALIFIED PERSONNEL OF THE POTENTIAL ELECTRICAL ARC FLASH HAZARDS AND DANGER.

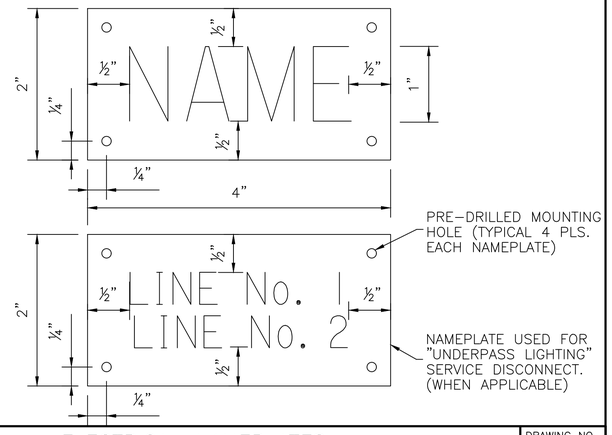
LABEL(S) SHALL BE 5"X7" (MINIMUM). LABEL(S) SHALL BE MADE OF HIGH QUALITY, SELF-ADHESIVE, WATER- AND CHEMICAL RESISTANT, FLEXIBLE VINYL. LABEL(S) SHALL BE OUTDOOR RATED AND PROTECTED FROM U.V. RADIATION, MOISTURE, OXIDATION, AND OTHER POLLUTANTS. LABEL(S) SHALL BE SURFACE MOUNT AND SUITABLE FOR INSTALLING ON FLAT, ROUND OR IRREGULAR SURFACES OF METAL, FIBERGLASS, OR PAINT. LABEL(S) SHALL BE OVERLAMINATED WITH CLEAR FILM TO PROVIDE PRINT PROTECTION. AFFIX LABEL(S) TO ALL DOORS OF LIGHTING CONTROLLERS, CONTROL CABINETS, CONSOLES, JUNCTION BOXES CONTAINING TERMINAL BLOCKS, GATE HOUSINGS, ETC., AND WHERE SPECIFIED BY THE PROJECT ENGINEER. LABELS SHALL COMPLY WITH MIN. REQUIREMENTS SET FORTH BY OSHA 29 CFR PART 1910, NFPA 70, AND NFPA 70E. ARC FLASH PROTECTION (SEE N.E.C. 110.16 AND 110.24). ANY VARIATIONS IN LABEL SIZE MUST BE SUBMITTED TO THE BRIDGE DESIGN ENGR. FOR APPROVAL.



ELECTRICAL LABELS
(TYPICAL; SELF-ADHESIVE VINYL TYPE)

DRAWING NO. RL805 08/10

WHERE SHOWN ON THE PLANS OR REQUIRED BY THE PROJECT ENGINEER, ALL LIGHTING CONTROLLERS, SWITCHBOARDS, CONTROL DESKS, DISCONNECTS, JUNCTION BOXES, GATE HOUSINGS, AND OTHER EQUIPMENT ENCLOSURES SHALL HAVE A NAMEPLATE AS SHOWN BELOW. REFER TO PLAN SHEETS AND DETAILS FOR NAME AND LOCATION. NAMEPLATE SHALL BE FABRICATED FROM 1/16" THICK (MINIMUM) PHENOL PLATE ENGRAVED STOCK. NAMEPLATE SHALL HAVE SATIN BLACK OUTER LAYER, WHITE INNER LAYER AND 45° BEVELED EDGES. NAMEPLATE SHALL HAVE 1" SIZE (MINIMUM) BLOCK-STYLE LETTERS AND FOUR (4) 1/8" (MINIMUM) DIAMETER PRE-DRILLED HOLES, ONE (1) LOCATED AT EACH CORNER, FOR MOUNTING NAMEPLATE. FASTEN NAMEPLATE TO EQUIPMENT USING #6-32 (MINIMUM) MARINE DUTY STAINLESS STEEL SELF-TAPPING MACHINE SCREWS HAVING 30000 PSI (MINIMUM) YIELD STRENGTH. NAMEPLATE SHALL BE LEVEL AFTER INSTALLATION. INSTALL NAMEPLATE WHERE APPLICABLE OR AS INDICATED IN THE PLANS. ANY VARIATIONS IN NAMEPLATE SIZE SHOWN BELOW MUST BE SUBMITTED TO THE BRIDGE DESIGN ENGINEER FOR APPROVAL.



ELECTRICAL NAMEPLATES
(TYPICAL; ENGRAVED PHENOL STOCK TYPE)

DRAWING NO. RL807 04/11

STATE OF LOUISIANA
KENNETH W. POWERS
License No. 39550
PROFESSIONAL ENGINEER IN
ELECTRICAL ENGINEERING
4/21/21

SHEET NUMBER 36

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA-18-11

DESIGNED	DETAILED	DATE
KWP	PWL	APRIL 2021
CHECKED	CHECKED	SHEET
AMG	RPO	5 OF 5

NO.	DATE	REVISION DESCRIPTION	BY

ELECTRICAL LIGHTING DETAILS

HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT

LUMINAIRE, POLE, AND JUNCTION BOX EQUIPMENT DESCRIPTION LIST (300 NUMBER ITEMS)

ITEM NO.	ITEM NAME	QUANTITY	PAY ITEM REFERENCE	MANUFACTURER	CATALOG NO.	DESCRIPTION
300	POLE IDENTIFICATION MARKERS	12	822-05-00700 822-05-01900	SETON	M3854	SELF-ADHESIVE VINYL CLOTH MARKERS, 2"X4" WITH A MINIMUM 3" CHARACTER HEIGHT. MARKERS SHALL HAVE BLACK LETTERS AND A REFLECTIVE YELLOW BACKGROUND.
301	POLE MARKER OWNERSHIP PLATE	12	822-05-00700 822-05-01900	UNION METAL		1"X4"X22 GAUGE SHEET ALUMINUM PLATE, 3/16" MIN. STAMPED CHARACTER, ALUMINUM RIVETS. SHALL INCLUDE THE FOLLOWING INFORMATION: STATE PROJECT NUMBER, POLE OWNER, POLE MANUFACTURER, AND POLE NUMBER.
302	LOW VOLTAGE CLOSURE	24	822-19-00010	MG²	MG2-SC-2	600V RATED LOW-VOLTAGE CLOSURE WITH SILICONE GEL FOR UNDERGROUND APPLICATIONS. SHALL MEET ANSI C119.1-1986 REQUIREMENTS.
303	SPLIT-BOLT CONNECTOR	12	822-19-00010	BURNDY/SERVIT	KS	HIGH STRENGTH COPPER ALLOY, MECHANICAL, PROVIDE CONNECTORS WITH A RANGE THAT WILL ACCOMMODATE THE LARGEST GROUNDING CONDUCTOR AT EACH LOCATION.
304	LOW MAST LUMINAIRE	12	822-07-01900	GE	ERLH 5 15C340 A GRAY F	POLE MOUNTED LED LUMINAIRE, 140W, IES TYPE III ROADWAY, GREY HOUSING, UL LISTED.
305	LOW MAST LIGHT POLE, 30 FT.	12	822-05-00700	GE	30TA15S7.511PP	30' MOUNTING HEIGHT, STEEL, 15' ARM, REFER TO PLAN SHEET 28C PARAGRAPH G AND DETAILS ON PLAN SHEET 32 FOR ADDITIONAL SPECIFICATIONS AND REQUIREMENTS.
306	POWER DISTRIBUTION BLOCK (SMALL)	12	822-08-00200	MERSEN		INTERMEDIATE, BOX TO BOX, 2-POLE AL STUD, 2 OPENING PRIMARY POLE, 6 OPENING SECONDARY POLE, 600 BOLT RATED, 450 AMP (MIN.), SAFETY COVERS, MOUNT WITH STAINLESS STEEL HARDWARE. PRIMARY WIRE RANGE: #4/0 – #6 (2 COUNT MIN.). SECONDARY WIRE RANGE: #2 – 14 (6 COUNT MIN.).

NOTES:

1. EQUIPMENT SHALL BE AS SPECIFIED OR APPROVED EQUAL. QUANTITIES ARE APPROXIMATE.
2. DESCRIPTION SHALL GOVERN OVER CATALOG NUMBERS.
3. THIS LIST IS NOT TO BE USED AS A SUMMARY OF ESTIMATED QUANTITIES BUT IS PROVIDED TO ASSIST THE CONTRACTOR FOR BIDDING. IT MAY NOT INCLUDE ALL ITEMS TO BE BID. THE CONTRACTOR SHALL REVIEW THE ENTIRE PLAN SET PRIOR TO BIDDING.

STATE OF LOUISIANA
KENNETH W. POWERS
License No. 39559
PROFESSIONAL ENGINEER
IN
ELECTRICAL ENGINEERING
4/21/21

SHEET NUMBER 38

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA-18-11

DESIGNED	DETAILED	DATE	SHEET
KWP	PWL	APRIL 2021	1 OF 2
CHECKED	CHECKED		
AMG	RPO		

NO.	DATE	REVISION DESCRIPTION	BY

ELECTRICAL EQUIPMENT DESCRIPTION LIST

HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT

CONDUIT, CONDUCTOR, GROUND, AND LABEL EQUIPMENT DESCRIPTION LIST (400 NUMBER ITEMS)

ITEM NO.	ITEM NAME	QUANTITY	PAY ITEM REFERENCE	MANUFACTURER	CATALOG NO.	DESCRIPTION
400	UNDERGROUND DUCT MARKERS	AS REQUIRED	822-21-00100			2'X2'X6" THICK DUCT MARKER. THE WORD "DUCT", NO. OF DUCTS, AND SIZE OF DUCT IMPRESSED ON SURFACE OF EACH MARKER. 4"X3" CHARACTERS, WITH ½" WIDE BY ¼" DEEP STROKE. REFER TO PLAN SHEET #34 "DETAIL RL501" FOR ADDITIONAL SPECS AND REQUIREMENTS.
401	WARNING LABEL, ARC FLASH & SHOCK HAZARD	1	822-08-00200 822-20-00100	SETON		5"X7" (MIN.), SELF-ADHESIVE, WATER AND CHEMICAL RESISTANT, FLEXIBLE VINYL., OUTDOOR RATED, PROTECTED FROM U.V. RADIATION, MOISTURE, OXIDATION, AND OTHER POLLUTANTS. BLACK FONT IN ORANGE BACKGROUND.
402	DANGER 240/480 VOLTS LABEL	1	822-09-00200 822-20-00100	SETON		5"X7" (MIN.), SELF-ADHESIVE, WATER AND CHEMICAL RESISTANT, FLEXIBLE VINYL., OUTDOOR RATED, PROTECTED FROM U.V. RADIATION, MOISTURE, OXIDATION, AND OTHER POLLUTANTS. BLACK FONT IN ORANGE BACKGROUND. REFER TO PLAN SHEET #35 "DETAIL RL508".
403	NAME PLATE	AS REQUIRED	822-02-00200 822-20-00100	GULF COAST POWER & CONTROL		FABRICATED FROM 1/16" THICK (MIN.) PHENOL PLATE ENGRAVED STOCK, WITH SATIN BLACK OUTER LAYER AND WHITE INNER LAYER, 45° BEVELED EDGES, 1" SIZE (MIN.) BLOCK-STYLE LETTERS. FOUR (4) ⅛" (MIN.) DIAMETER PRE-DRILLED HOLES, ONE (1) LOCATED AT EACH CORNER.
404	RIGID GALVANIZED STEEL CONDUIT, FITTING & SUPPORT	AS REQUIRED	822-02-03100 822-02-03020	WHEATLAND TUBE CO.		¾" AND 2" HOT DIPPED GALVANIZED RIGID STEEL CONDUIT, FITTINGS, AND SUPPORTS. REFER TO PLAN SHEET #28C, "RIGID STEEL CONDUIT AND FITTINGS", FOR ADDITIONAL SPECIFICATIONS AND REQUIREMENTS.
405	SCHEDULE 40 PVC CONDUIT, FITTING & SUPPORT	AS REQUIRED	822-02-00100 822-02-00500	CANTEX		¾", 1¼", 1½", AND 2" SCHEDULE 40 PVC HEAVY WALL CONDUIT AND FITTINGS. FOR USE IN BELOW GROUND APPLICATIONS. RATED FOR USE WITH 90°C CONDUCTORS. REFER TO PLAN SHEET #28C "NON-METALLIC CONDUITS AND FITTINGS" FOR ADDITIONAL SPECIFICATIONS AND REQUIREMENTS.
406	SCHEDULE 80 PVC CONDUIT, FITTING & SUPPORT	AS REQUIRED	822-02-00100	CANTEX		6" SCHEDULE 80 PVC EXTRA HEAVY WALL CONDUIT, AND FITTINGS. FOR USE IN BELOW GROUND APPLICATIONS. RATED FOR USE WITH 90°C CONDUCTORS. REFER TO PLAN SHEET #28C "NON-METALLIC CONDUITS AND FITTINGS" FOR ADDITIONAL SPECIFICATIONS AND REQUIREMENTS.
407	EXPANSION FITTING	AS REQUIRED	822-02-01100 822-02-01500	O-Z/GEDNEY	AX-A	ALUMINUM EXPANSION FITTING WITH BONDING JUMPER: ALUMINUM BONDING STRAP, STAINLESS STEEL HARDWARE. BONDING JUMPER EQUAL TO O-Z/GEDNEY MODEL #BJ.
408	CONDUIT CLAMP	AS REQUIRED	822-02-01100 822-02-01500	O-Z/GEDNEY	14-G	MALLEABLE IRON/HOT DIPPED GALVANIZED CONDUIT PIPE STRAPS, CLAMP BACKS, AND CONDUIT SPACERS FOR RIGID AND FLEXIBLE METALLIC CONDUIT. SHALL MEET CSA CERTIFICATION 9795, CSA C22.2 NO. 18, AND FEDERAL SPECIFICATION FF-S-760.
409	INSULATED CONDUCTORS	AS REQUIRED	822-02-00100, -00500, -01500, -03100, -03500, -04500	AMERICAN INSULATED		#2, AND #8 AWG CLASS B, TYPE XHHW-2, 90°C, 600V, CROSS-LINKED POLYETHYLENE INSULATED COPPER CONDUCTORS. REFER TO PLAN SHEET #28C, PARAGRAPH C "WIRE AND CABLE", FOR ADDITIONAL SPECIFICATIONS AND REQUIREMENTS.
410	BARE CONDUCTORS	AS REQUIRED	822-02-01100, -00500, -04500	SERVICE WIRE CO.		UNLESS NOTED OTHERWISE. #2, #4, #6, #8, AND #10 AWG BARE SOLID COPPER CONDUCTORS.
411	COMPRESSION TYPE WIRE CONNECTOR	AS REQUIRED	822-02-00100, -00500, -01100, -05100, -03100, -03500, -04500	BURNDY	YS-L	COPPER COMPRESSION BARREL TYPE WIRE CONNECTOR. UL LISTED, 90°C RATED, 600 VOLTS. CONNECTOR SHALL PROVIDE A CENTER WIRE STOP FOR PROPER CONDUCTOR INSERTION.
412	GEL TYPE SPLICE KIT	AS REQUIRED	822-02-00100, -00500, -01100, -05100, -03100, -03500, -04500	TYCO	GTAP	GEL TAP SPLICE KIT DESIGNED FOR UNDERGROUND ENVIRONMENTS. SPLICE KIT SHALL INCLUDE FOUR PORT MECHANICAL CONNECTORS, A SNAP-LOCK, HINGED CLOSURE WITH FRANGIBLE FINGERS, AND HIGH DIELECTRIC SILICONE GEL.
413	GROUND ROD	14	822-05-00700 822-05-01900 822-08-00200	ERITECH	613400	¾" DIAMETER BY 10' (MINIMUM) GROUND ROD CONSTRUCTED FROM STAINLESS STEEL, TYPE 316 UL LISTED. SEE PLAN SHEET 28C "PARAGRAPH I" FOR ADDITIONAL SPECIFICATIONS.
414	GROUND BUSHING	12	822-02-01100 822-02-01300 822-08-00200	THOMAS & BETTS	3871-TB	CAST MALLEABLE IRON, THREADED, INSULATED GROUNDING BUSHING FOR LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT. SHALL INCLUDE WIRE CLAMPING SCREW AND ALUMINUM/TIN PLATED LAY-IN LUG FOR INSTALLATION OF BONDING JUMPER. INSULATOR SHALL BE RATED FOR 150°C APPLICATION.
415	EXOTHERMIC WELD KIT	12	822-05-02100 822-05-01900 822-08-00200	ERICO	GN	EXOTHERMIC WELD KIT(S) TO FORM A LOW-RESISTANCE, MOLECULAR BOND BETWEEN GROUNDING ELECTRODE CONDUCTORS AND GROUNDING ELECTRODES.
416	BONDING JUMPERS/STRAPS	12	822-02-01100 822-02-01500	OZ/GEDNEY	ABJ	¾", 1¼", AND 1½" BONDING JUMPER FOR RIGID ALUMINUM CONDUIT. CLAMPS AND CONNECTING STRAP SHALL BE ALUMINUM. U-BOLTS AND NUTS SHALL BE STAINLESS STEEL UL LISTED AND CSA CERTIFIED.
417	SPLICE KIT	AS REQUIRED	822-02-00100, -00500, -01100, -05100, -03100, -03500, -04500	BURNDY	UGSKIT	HEAT SHRINK SPLICE KIT FOR USE WITH COPPER CONDUCTORS. SPLICE SHALL BE CONSTRUCTED FROM HIGH STRENGTH, TIN PLATED ALUMINUM. HEAT SHRINK SLEEVES SHALL BE LINED WITH ADHESIVE MATERIAL TO PROVIDE A WATERTIGHT SPLICE. UL LISTED FOR DIRECT BURIAL. SEE SHEET 35, DETAIL RL508.
418	TAPE SEALANT	12	822-02-00100, -00500, -01100, -05100, -03100, -03500, -04500	THOMAS & BETTS	HSTS25	1" WIDE BY 1/16" THICK (MIN.) TAPE SEALANT. SHALL BE ABLE TO RESIST ACIDS, BASES AND ALCOHOLS. SERVICE TEMPERATURE -40°F TO 180°F.
419	UNDERGROUND MARKER TAPE	AS REQUIRED	822-20-00300	EMPIRE LEVEL MFG.	31-107	3" WIDE MARKER TAPE, "CAUTION ELECTRIC LINE BELOW" RED/SILVER TAPE WITH BLACK INK. 3 LAYER SANDWICH WITH A LAYER OF FOIL ENCASED BETWEEN TWO LAYERS OF PLASTIC. 5 MIL (0.005") THICKNESS WITH MIN. 35 GAUGE (0.00035") SOLID ALUMINUM FOIL CORE. PRINTING ENCASED TO AVOID INK RUB-OFF.
420	HIGH DENSITY POLYETHYLENE (HOPE) CASING	AS REQUIRED	822-04-00200	DURALINE		6" SCHEDULE 80, SMOOTH WALL, U.L. LISTED, GRAY, USE FOR ALL UNDER ROAD BORES TO CONCRETE MEDIAN BARRIER. SEE PLAN SHEET 28C, PARAGRAPH B, "CONDUITS SYSTEM", NON-METALLIC CONDUITS AND FITTINGS" FOR ADDITIONAL SPECIFICATIONS AND REQUIREMENTS.
421	HOPE TO PVC COUPLER	AS REQUIRED	822-02-00500	DURALINE		2" SHUR-LOCK II COUPLER, DURABLE HDPE, EXTERNAL BAND CLAMPS & LOCKING RINGS CONSTRUCTED FROM CONRROSION-RESISTANT STAIN. STEEL, UL LISTED FOR UNDERGROUND APPLICATIONS, HDPE.
		AS REQUIRED	822-02-01000	DURALINE		6" CONDUIT, AND WET LOCATIONS, HIGH-INTEGRITY JOINING OF HDPE & PVC CONDUIT, NO I.D. REDUCTION, RE-ENTERABLE, AIR AND WATER TIGHT, EXCELLENT PULL OUT STRENGTH ON HDPE AND PVC.

NOTES:

1. EQUIPMENT SHALL BE AS SPECIFIED OR APPROVED EQUAL. QUANTITIES ARE APPROXIMATE.
2. DESCRIPTION SHALL GOVERN OVER CATALOG NUMBERS.
3. THIS LIST IS NOT TO BE USED AS A SUMMARY OF ESTIMATED QUANTITIES BUT IS PROVIDED TO ASSIST THE CONTRACTOR FOR BIDDING. IT MAY NOT INCLUDE ALL ITEMS TO BE BID. THE CONTRACTOR SHALL REVIEW THE ENTIRE PLAN SET PRIOR TO BIDDING.

STATE OF LOUISIANA
KENNETH W. POWERS
License No. 39559
PROFESSIONAL ENGINEER IN
ELECTRICAL ENGINEERING
4/21/21

SHEET NUMBER 39

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA-18-11

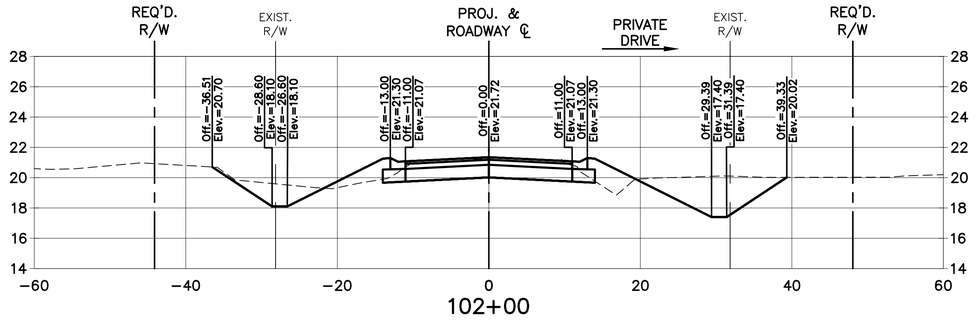
DESIGNED	DETAILED	DATE	SHEET
KWP	PWL	APRIL 2021	2 OF 2
CHECKED	CHECKED		

REVISION DESCRIPTION | DATE | NO. | BY

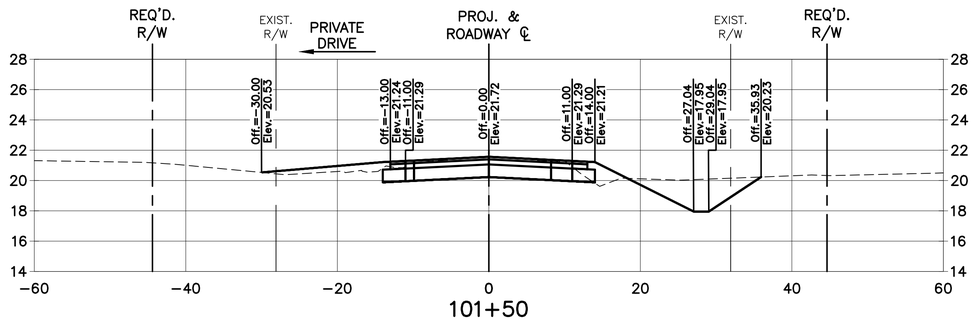
ELECTRICAL EQUIPMENT DESCRIPTION LIST
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

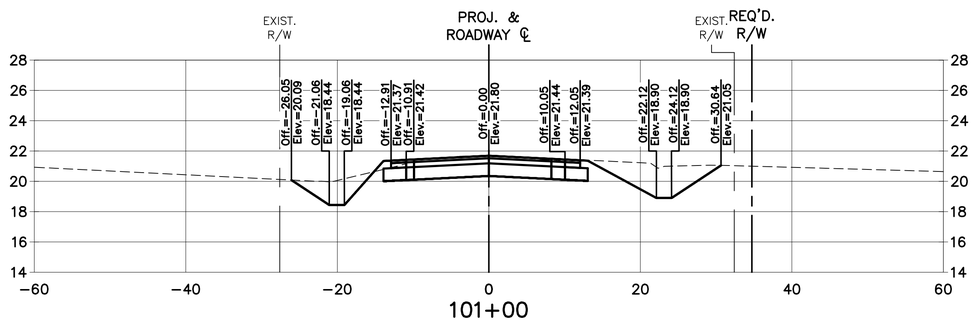
VOLKERT



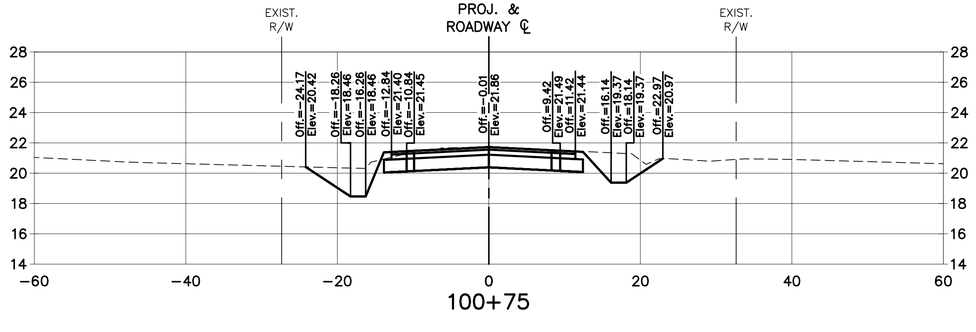
STATION 102+00.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	71.33	67.84	322.61
GROUND FILL	21.24	16.02	32.45



STATION 101+50.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	52.87	52.73	195.48
GROUND FILL	9.60	4.92	5.80



STATION 101+00.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	66.11	57.24	83.88
GROUND FILL	0.37	0.20	0.23



STATION 100+75.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	57.54	26.64	26.64
GROUND FILL	0.07	0.03	0.03

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
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CIVIL ENGINEERING
10/18/24

SHEET NUMBER 400

PARISH	CITY	PROJECT
ASCENSION	GONZALES, LA	MA-18-11

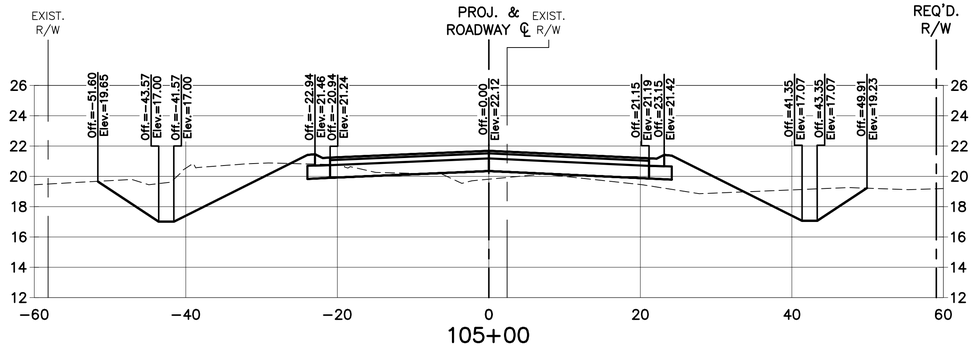
DESIGNED	CHECKED	DETAILED	CHECKED	DATE	SHEET
ANB	AMG	##	RPD	JULY 2024	1 OF 9

NO.	DATE	REVISION DESCRIPTION	BY

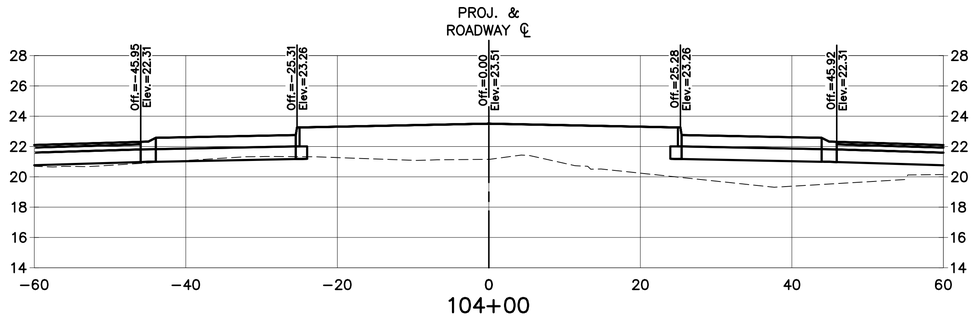
CROSS SECTIONS
PARISH HWY. 929
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

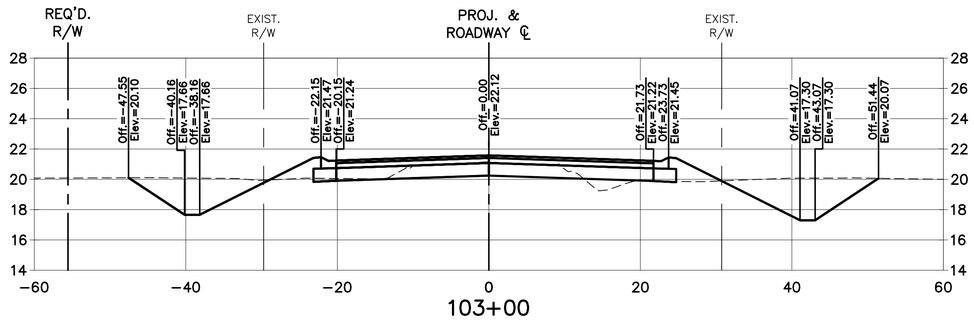
VOLKERT



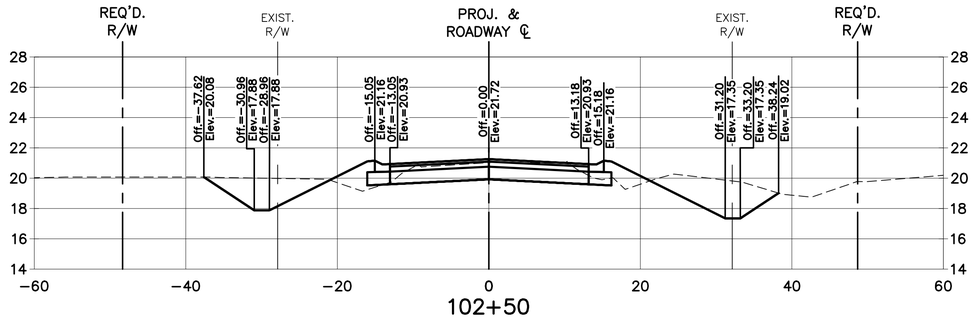
STATION 105+00.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	69.45	67.62	915.58
GROUND FILL	24.57	35.09	697.36



STATION 104+00.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	10.58	30.90	779.55
GROUND FILL	170.68	154.71	428.98



STATION 103+00.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	79.76	70.86	602.42
GROUND FILL	16.30	11.91	100.45



STATION 102+50.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	75.82	70.31	461.14
GROUND FILL	23.93	20.46	72.13

STATE OF LOUISIANA
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10/18/24

SHEET NUMBER 401

ASCENSION | GONZALES, LA | MA-18-11
PARISH | CITY | PROJECT

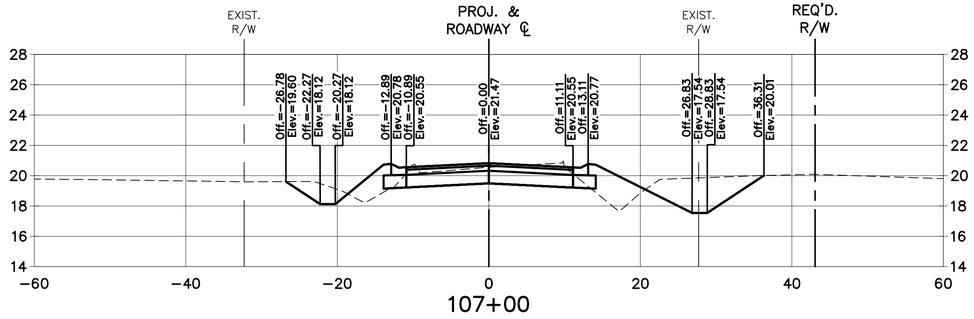
DESIGNED ANB
CHECKED AMG
DETAILED ###
CHECKED RPD
DATE JULY 2024
SHEET 2 OF 9

REVISION DESCRIPTION | DATE | NO. | BY

CROSS SECTIONS
PARISH HWY.929
HWY. 929 & HWY. 930 ROUNDABOUT

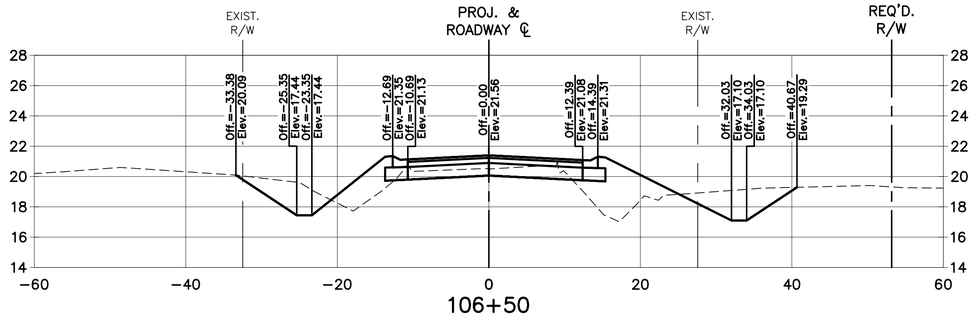
MOVE ASCENSION

VOLKERT



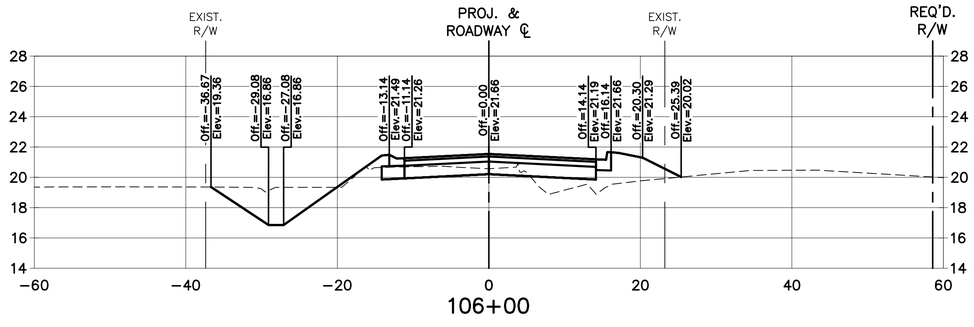
107+00

STATION 107+00.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	57.93	49.82	1293.56
GROUND FILL	32.59	25.24	908.52



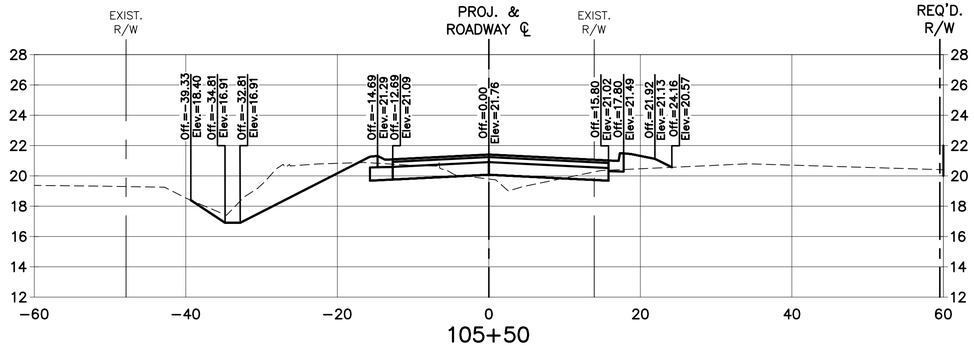
106+50

STATION 106+50.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	52.33	21.05	1196.64
GROUND FILL	38.36	29.63	855.95



106+00

STATION 106+00.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	53.03	53.95	1137.98
GROUND FILL	24.06	19.69	771.35



105+50

STATION 105+50.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	56.90	55.73	1027.98
GROUND FILL	11.41	16.34	737.69

STATE OF LOUISIANA
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CIVIL ENGINEERING

10/18/24

SHEET NUMBER 402

ASCENSION | GONZALES, LA | MA-18-11
PARISH | CITY | PROJECT

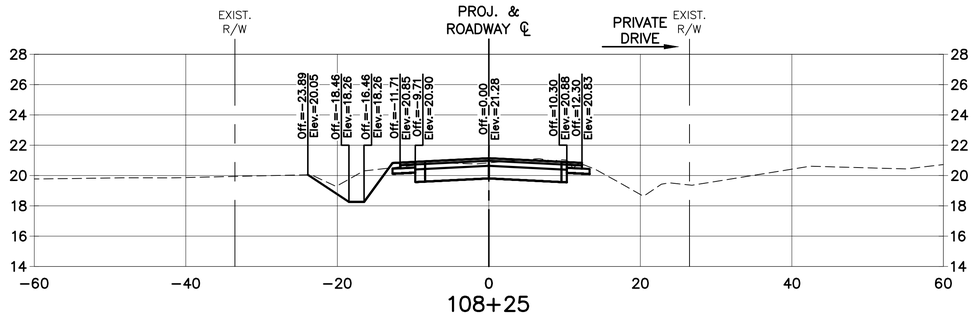
DESIGNED ANB
CHECKED AMG
DETAILED ##
CHECKED RPD
DATE JULY 2024
SHEET 3 OF 9

REVISION DESCRIPTION | DATE | NO. | BY

CROSS SECTIONS
PARISH HWY. 929
HWY. 929 & HWY. 930 ROUNDABOUT

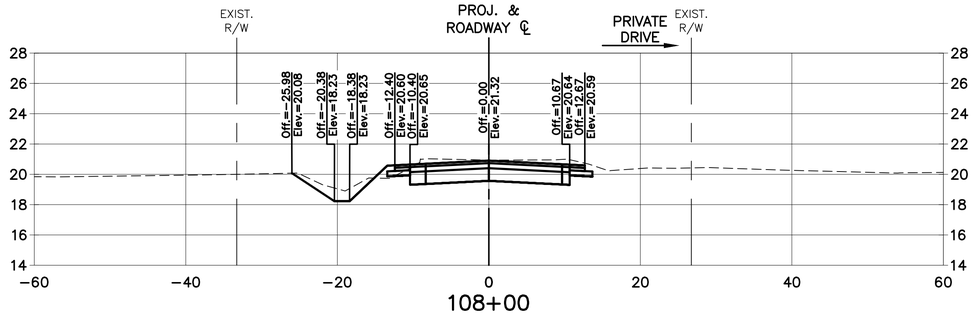
MOVE ASCENSION

VOLKERT



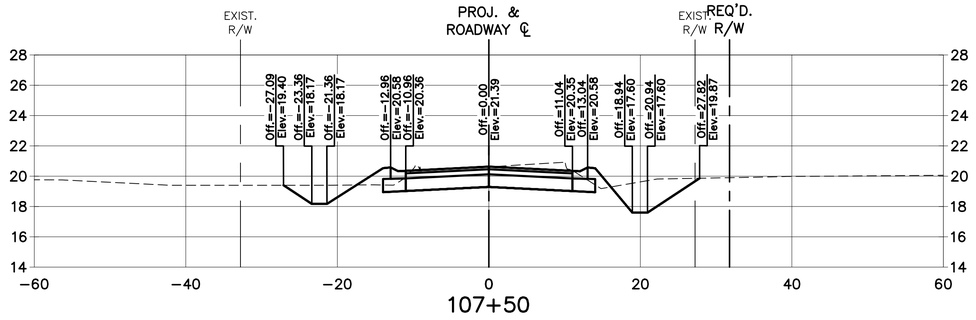
108+25

STATION 108+25.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	54.81	25.48	1514.76
GROUND FILL	5.57	2.59	991.10



108+00

STATION 107+99.90			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	0.00	29.71	1489.29
GROUND FILL	0.00	9.87	988.51



107+50

STATION 107+50.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	58.09	54.68	1402.84
GROUND FILL	24.16	22.56	957.54

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PARISH | CITY | PROJECT

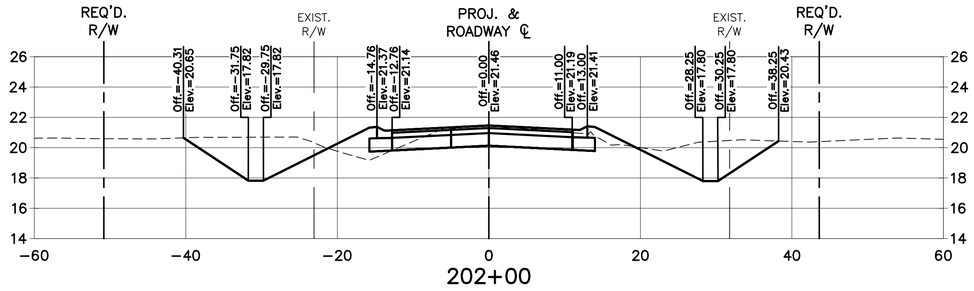
DESIGNED ANB
CHECKED AMG
DETAILED ##
CHECKED RPD
DATE JULY 2024
SHEET 4 OF 9

REVISION DESCRIPTION | BY | DATE | NO.

CROSS SECTIONS
PARISH HWY. 929
HWY. 929 & HWY. 930 ROUNDABOUT

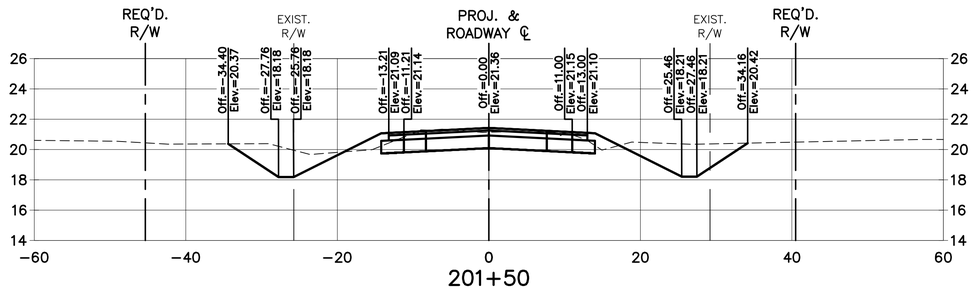
MOVE ASCENSION

VOLKERT



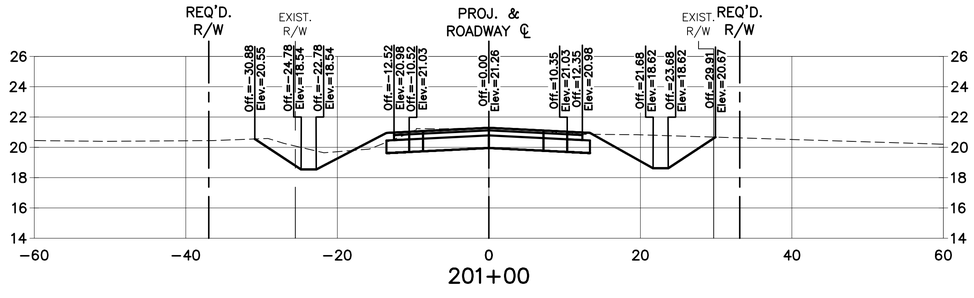
202+00

STATION 202+00.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	90.18	89.70	425.61
GROUND FILL	9.22	4.45	17.27



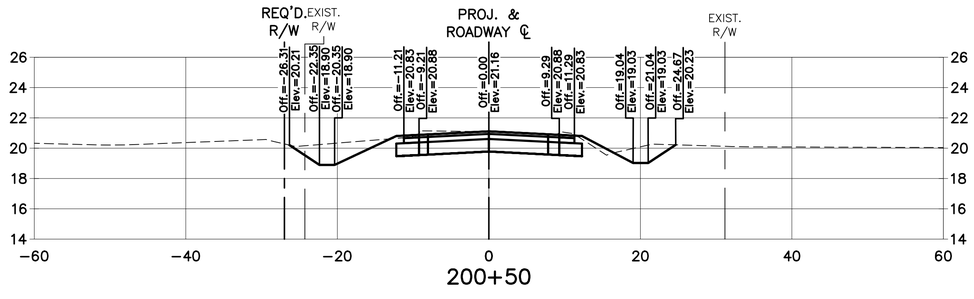
201+50

STATION 201+50.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	70.68	64.47	255.17
GROUND FILL	4.38	4.33	10.57



201+00

STATION 201+00.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	65.33	56.39	128.70
GROUND FILL	1.77	1.41	3.14



200+50

STATION 200+50.15			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	49.92	23.25	23.25
GROUND FILL	1.25	0.58	0.58

STATE OF LOUISIANA
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10/18/24

SHEET NUMBER 404

ASCENSION | GONZALES, LA | MA-18-11
PARISH | CITY | PROJECT

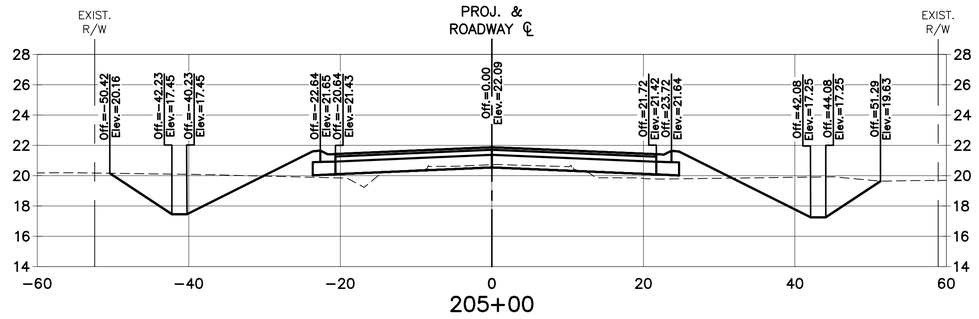
DESIGNED ANB
CHECKED AMG
DETAILED PWL
CHECKED RPO
DATE JULY 2024
SHEET 6 OF 9

NO.	REVISION DESCRIPTION	DATE	BY

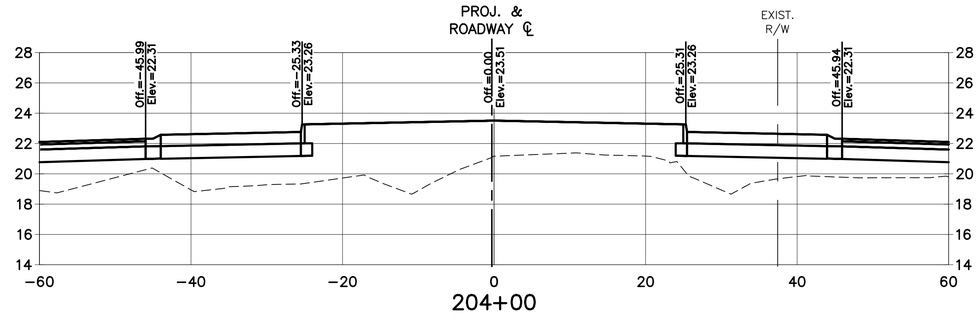
CROSS SECTIONS
PARISH HWY. 930
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

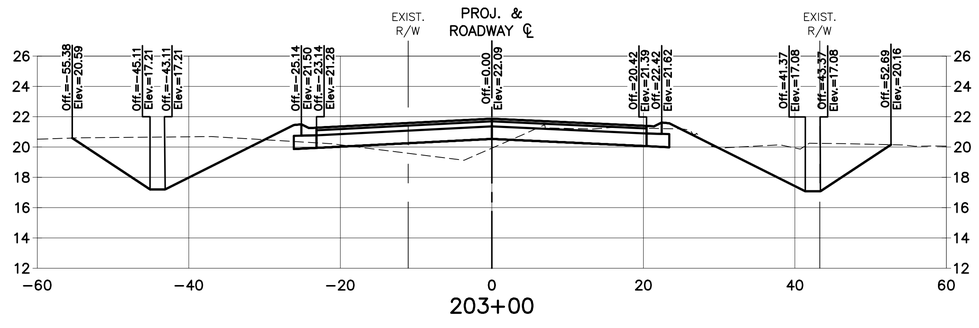
VOLKERT



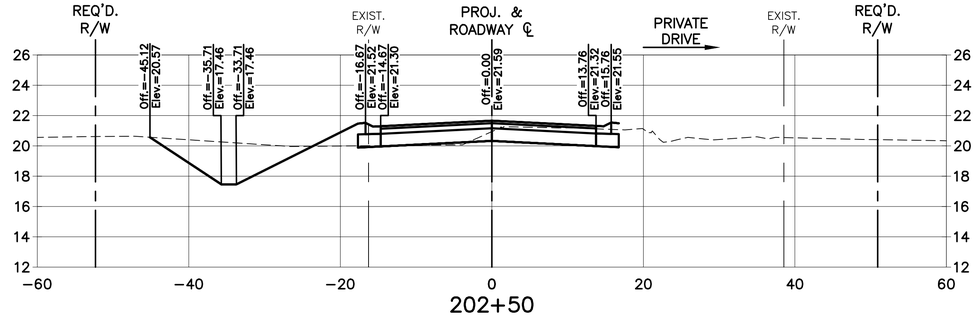
STATION 205+00.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	63.34	56.58	1043.61
GROUND FILL	18.99	21.55	684.60



STATION 204+00.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	1.43	1.08	954.28
GROUND FILL	260.47	187.25	404.32



STATION 203+00.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	109.11	99.13	796.70
GROUND FILL	16.63	13.61	53.73



STATION 202+50.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	109.26	90.98	598.76
GROUND FILL	5.09	6.44	31.87

STATE OF LOUISIANA
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CIVIL ENGINEERING
10/18/24

SHEET NUMBER 405

ASCENSION | GONZALES, LA | MA-18-11
PARISH | CITY | PROJECT

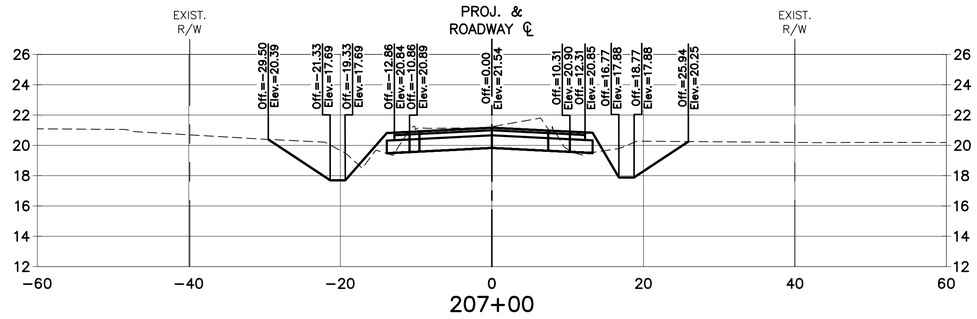
DESIGNED ANB
CHECKED AMG
DETAILED PML
CHECKED RPO
DATE JULY 2024
SHEET 7 OF 9

REVISION DESCRIPTION | DATE | BY | NO.

CROSS SECTIONS
PARISH HWY. 930
HWY. 929 & HWY. 930 ROUNDABOUT

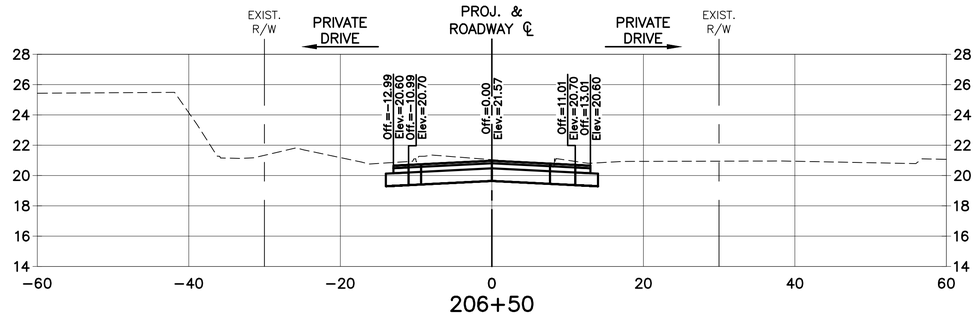
MOVE ASCENSION

VOLKERT



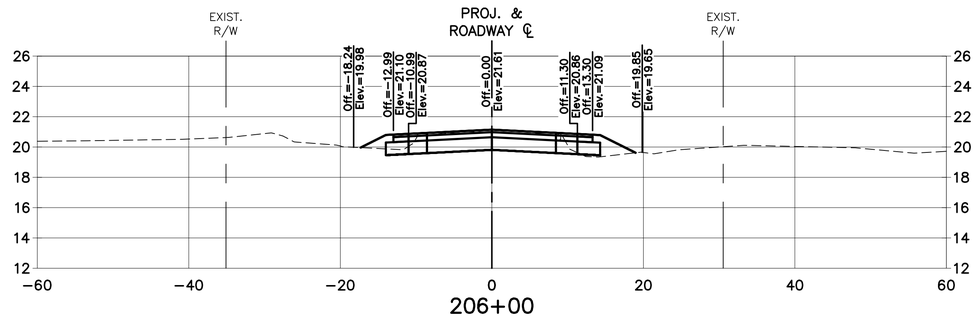
207+00

STATION 207+00.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	63.29	69.74	1755.13
GROUND FILL	3.93	3.48	751.33



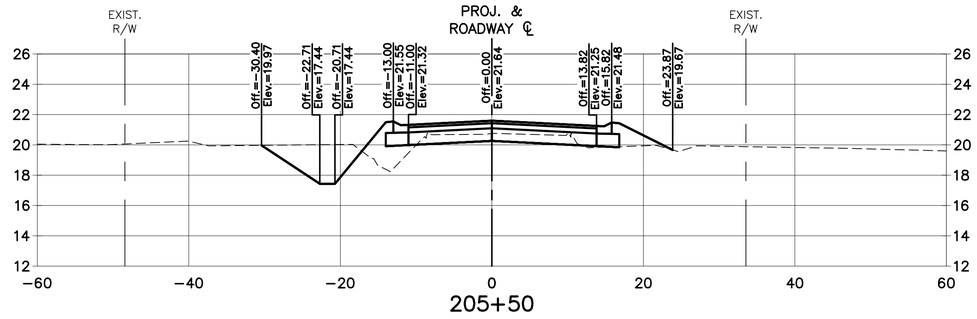
206+50

STATION 206+50.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	208.57	194.64	1548.38
GROUND FILL	0.00	0.09	746.18



206+00

STATION 206+00.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	60.57	50.37	1227.63
GROUND FILL	5.29	5.62	743.55



205+50

STATION 205+50.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	37.86	40.89	1137.18
GROUND FILL	15.49	20.68	727.57

STATE OF LOUISIANA
ASHLEY N. BECKENDORF
License No. 37334
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
10/18/24

SHEET NUMBER 406

ASCENSION | GONZALES, LA | MA-18-11
PARISH | CITY | PROJECT

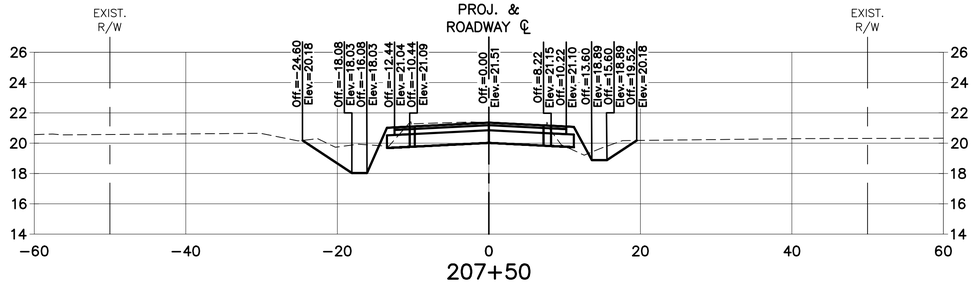
DESIGNED ANB
CHECKED AMG
DETAILED PWL
CHECKED RPO
DATE JULY 2024
SHEET 8 OF 9

REVISION DESCRIPTION | DATE | NO. | BY

CROSS SECTIONS
PARISH HWY. 930
HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT



STATION 207+50.00			
MATERIAL NAME	AREA	VOLUME	CUMULATIVE VOLUME
GROUND REMOVED	44.10	49.64	1863.29
GROUND FILL	2.94	2.28	756.35

STATE OF LOUISIANA
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10/18/24

SHEET NUMBER	407

DESIGNED	ANB	PARISH	ASCENSION
CHECKED	AMG		
DETAILED	PML	CITY	GONZALES, LA
CHECKED	RPO		
DATE	JULY 2024	PROJECT	MA-18-11
SHEET	9 OF 9		

NO.	DATE	REVISION DESCRIPTION	BY

CROSS SECTIONS
PARISH HWY. 930

HWY. 929 & HWY. 930 ROUNDABOUT

MOVE ASCENSION

VOLKERT