STATE	PROJECT NUMBER	SHEET NO.	TOTAL
GA.	3003019	1	93

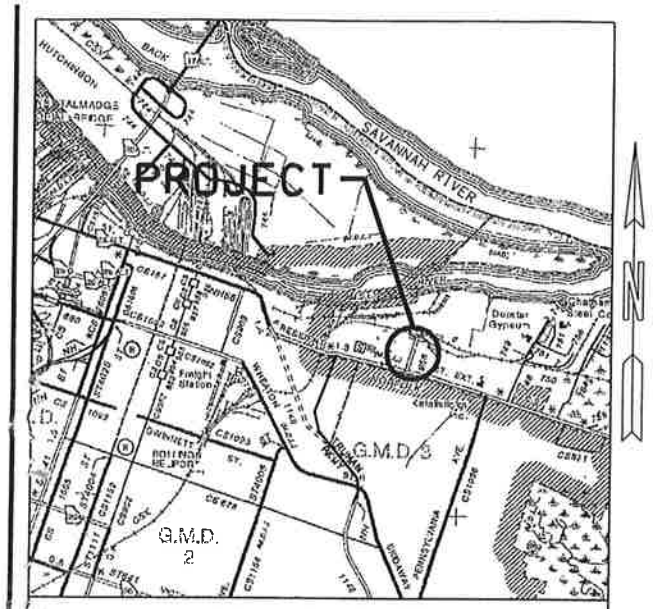
CHATHAM COUNTY, GEORGIA

PLAN AND PROFILE

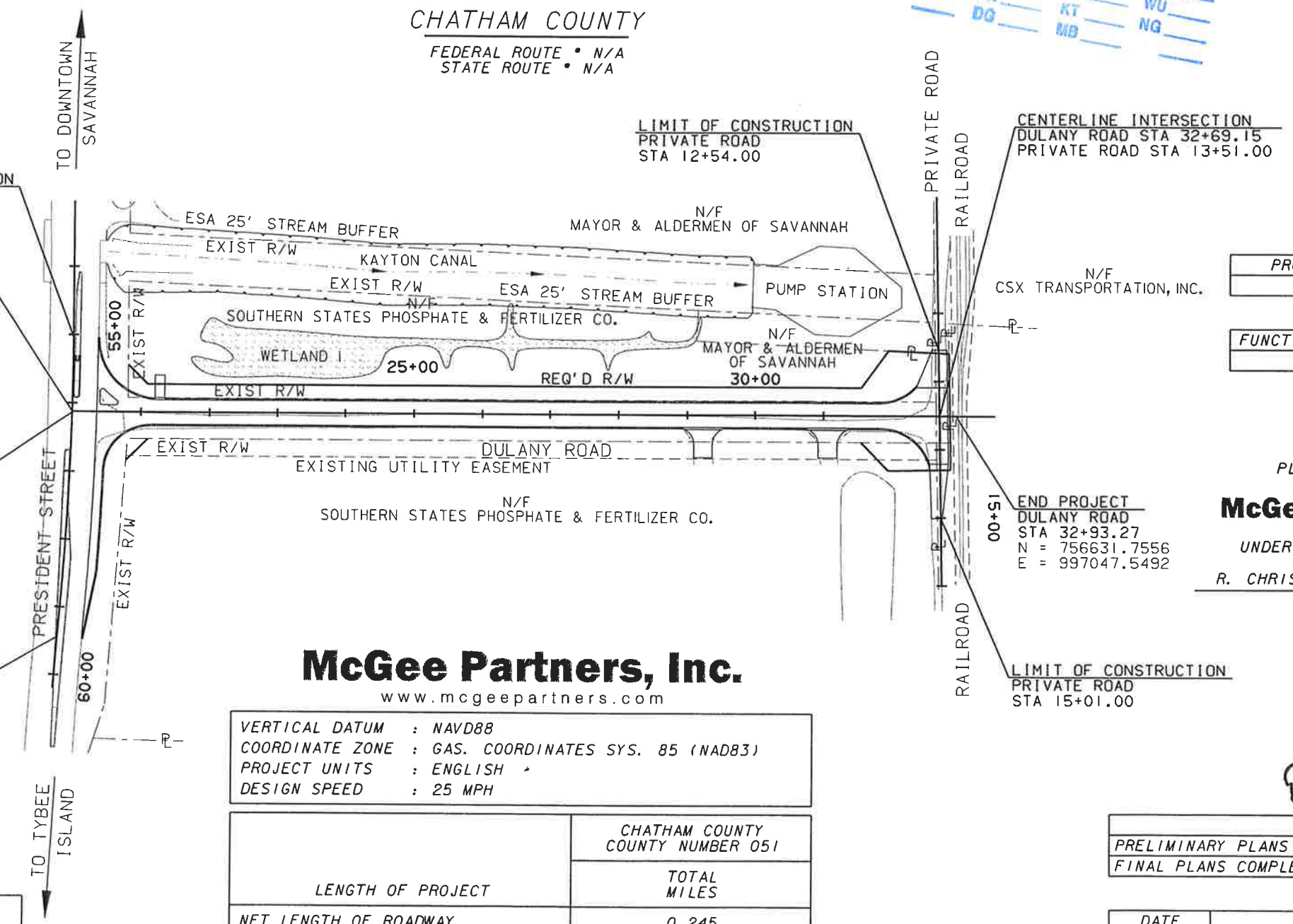
DULANY ROAD

CHATHAM COUNTY

FEDERAL ROUTE • N/A
STATE ROUTE • N/A



LOCATION SKETCH



SCALE IN FEET

100 0 100 200 400

PROJECT DESIGNATION
EXEMPT

FUNCTIONAL CLASSIFICATION
LOCAL ROAD

PLANS PREPARED BY:

McGee Partners, Inc.

UNDER THE SUPERVISION OF:

R. CHRISTOPER MARSENGILL, P.E.

GEORGIA REGISTERED No. 26[illegible] PROFESSIONAL ENGINEER R. CHRISTOPHER MARSENGILL

1/14/10

McGee Partners, Inc.

www.mcgeepartners.com

VERTICAL DATUM	: NAVD88
COORDINATE ZONE	: GAS. COORDINATES SYS. 85 (NAD83)
PROJECT UNITS	: ENGLISH
DESIGN SPEED	: 25 MPH

LENGTH OF PROJECT	CHATHAM COUNTY COUNTY NUMBER 051 — TOTAL MILES
NET LENGTH OF ROADWAY	0.245
NET LENGTH OF BRIDGES	0.000
NET LENGTH OF PROJECT	0.245
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	0.245

THIS PROJECT IS 100% IN CONGRESSIONAL DISTRICT NO. 12
THIS PROJECT IS 100% IN CHATHAM COUNTY, GMD 3

	DATE
PRELIMINARY PLANS COMPLETED	06/26/09
FINAL PLANS COMPLETED	01/14/10

DATE	REVISIONS

NOTE:
THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS, OR IN ANY WAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND CHATHAM COUNTY IN ANY WAY. THE ATTENTION OF THE BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTION 102.04, 102.05 AND 104.3 OF THE GEORGIA DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS.

3003019
CHATHAM COUNTY

RECEIVED
JAN 26 2010
AGB VG PY SC NP DH DG FS GD KT MB AB WU NG

SHEET NO.	DWG NO.	DESCRIPTION		
1	1-01	COVER SHEET		
2	2-01	INDEX		
3	3-01	REVISION SUMMARY SHEET		
4	4-01	GENERAL NOTES/PROJECT NOTES		
5-7	5-01 - 5-03	TYPICAL SECTIONS		
8-9	6-01 - 6-02	SUMMARY OF QUANTITIES		
10	9-01	DETAILED ESTIMATE		
11-14	13-01 - 13-04	MAINLINE PLAN AND PROFILE SHEETS		
15	14-01	CROSSROAD PLAN AND PROFILE SHEETS		
16	17-01	DRIVEWAY PROFILES		
17-18	22-01 - 22-02	DRAINAGE CROSS SECTIONS		
19-29	23-01 - 23-11	CROSS SECTIONS		
30-35	24-00 - 24-05	UTILITY PLANS		
36-40	26-01 - 26-05	SIGNING AND MARKING PLANS AND DETAILS		
		GEORGIA DEPARTMENT OF TRANSPORTATION CONSTRUCTION DETAILS		**DATE**
41	40-01	A-3	CONCRETE SIDEWALK DETAILS CURB CUT (WHEELCHAIR) RAMPS	6-09
42	40-02	A-4	DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS	6-09
43	40-03	M-3	CONSTRUCTION DETAILS OF MEDIAN CROSSOVERS	10-02
44	40-04	T-1	SIGN PLATES	1-00
45	40-05	T-3A	TYPE 7, 8, & 9 SQUARE TUBE POST INSTALLATION DETAILS	7-02
46	40-06	T-11A	DETAILS OF PAVEMNET MARKING PLACEMENT ON NON-LIMITED ACCESS ROADWAY	1-00
47	40-07	T-12A	DETAILS OF PAVEMNET MARKING ARROW LOCATION	1-00
48	40-08	T-12B	DETAILS OF PAVEMNET MARKING - ARROWS	4-00
49	40-09	T-14	DETAIL OF PAVEMENT MARKING HATCHING	11-08
50	40-10	T-15A	DETAILS OF RAISED PAVEMENT MARKER LOCATION NON-LIMITED ACCESS ROADWAY	1-04
51	40-11	T-15C	DETAILS OF RAISED PAVEMENT MARKERS	1-00
		GEORGIA DEPARTMENT OF TRANSPORTATION CONSTRUCTION STANDARD DRAWINGS		
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53	41-02	1011A	PRECAST REINFORCED CONCRETE MANHOLE	6-75
54-56	41-03 - 41-05	1030D	PIPE CULVERTS (3 SHEETS)	9-01
57	41-06	1120	FLARED END SECTIONS FOR PIPES	6-06
58	41-07	9031T	ISOMETRIC VIEW OF SIDE ROAD OR DRIVE FLARE DETAIL AT BRIDGE ENDS	8-95
59	41-08	9032B	CONCRETE CURB & GUTTER, CONCRETE CURBS, CONCRETE MEDIANS	3-03
60	41-09	9100	TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, AND MISCELLANEOUS DETAILS	3-06
		EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN AND COMPREHENSIVE MONITORING PROGRAM		
61	50-01	EROSION CONTROL COVER SHEET		
62-64	51-01 - 51-03	EROSION, SEDIMENTATION, AND POLLUTION CONTROL GENERAL NOTES		
65	52-1	EC-L1	EROSION CONTROL LEGEND AND UNIFORM CODE SHEET SHEET 1 OF 6	11-07
66	52-2	EC-L2	EROSION CONTROL LEGEND AND UNIFORM CODE SHEET SHEET 2 OF 6	11-07
67	52-3	EC-L3	EROSION CONTROL LEGEND AND UNIFORM CODE SHEET SHEET 3 OF 6	11-07
68	52-4	EC-L4	EROSION CONTROL LEGEND AND UNIFORM CODE SHEET SHEET 4 OF 6	11-07
69	52-5	EC-L5	EROSION CONTROL LEGEND AND UNIFORM CODE SHEET SHEET 5 OF 6	11-07
70	52-6	EC-L6	EROSION CONTROL LEGEND AND UNIFORM CODE SHEET SHEET 6 OF 6	11-07
71	53-01	DRAINAGE AREA MAP		
72-86	54-01 - 54-15	BMP LOCATION DETAILS		
87	55-01	EROSION CONTROL WATERSHED MAP AND SITE MONITORING		
		GEORGIA DEPARTMENT OF TRANSPORTATION CONSTRUCTION DETAILS FOR EROSION CONTROL		
88	57-01	D-7	BERM DITCHES, SIDE DITCHES, SURFACE DITCHES	7-80
89	57-02	D-20	SILT CONTROL GATES FOR STRUCTURES TYPE- 1,2,3: INLET SEDIMENT TRAP	3-05
90	57-03	D-24A	TEMPORARY SILT FENCE BALED STRAW EROSION CHECK BRUSH BARRIER DETAILS	9-01
91	57-04	D-24B	TYPICAL LOCATION DETAILS FOR SILT FENCE/BALED STRAW	10-02
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		RIGHT OF WAY PLANS - 7 SHEETS (FOR REFERENCE ONLY)		

McGee Partners, Inc.
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REVISION DATES

DULANY ROAD

INDEX

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	2-01	

1/1/2006 CNBDR

REVISION SUMMARY

DATE	REVISED SHEET NUMBER	REVISION

REVISION DATES

DULANY ROAD

REVISION SUMMARY

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	3-01	

McGee Partners, Inc.
www.mcgeepartners.com

3/17/2008
CONDOR

GENERAL NOTES

1. DRIVEWAYS SHALL BE REPLACED IN KIND WITHIN THE LIMITS INDICATED ON THE PLANS IN ACCORDANCE WITH THE FOLLOWING:

   COMMERCIAL AGGREGATE DRIVES: 6" GRADED AGGREGATE

   THE APRON AT EACH DRIVEWAY SHALL BE ASPHALT IN ACCORDANCE WITH CHATHAM COUNTY'S DRIVEWAY STANDARDS

   ASPHALT APRON FOR AGGREGATE DRIVES: 165 LB/SY ASPHALTIC CONCRETE SURFACE 12.5 MM SUPERPAVE
   220 LB/SY ASPHALTIC CONCRETE BINDER 19.0 MM SUPERPAVE
   6" GRADED AGGREGATE BASE

2. THE FOLLOWING UTILITY OWNERS MAY HAVE FACILITIES THAT CONFLICT WITH CONSTRUCTION ON THIS PROJECT:

NAME OF UTILITY OWNER	UTILITY	PHONE
AGL RESOURCES	GAS	(912) 547-0405
AT&T	PHONE	(912) 356-3945
GEORGIA POWER COMPANY	ELECTRIC	(912) 547-0660
CITY OF SAVANNAH	WATER	(912) 651-6573

   THE CONTRACTOR SHALL ADHERE TO THE CALL BEFORE YOU DIG LAW BY CALLING THE UNDERGROUND PROTECTION CENTER BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNDERGROUND UTILITIES AND SHALL COORDINATE WORK WITH THE UTILITY COMPANIES.

3. ALL WORK ON THE PROJECT SHALL CONFORM TO GDOT STANDARDS, SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS, CURRENT EDITION, EXCEPT AS MODIFIED BY THESE PLANS.

4. ALL MATERIALS SHALL BE OBTAINED FROM GDOT APPROVED SUPPLIERS.

5. ACCESS TO ADJACENT PROPERTY MUST BE MAINTAINED AT ALL TIMES AND CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH PROPERTY OWNERS.

6. ALL TRAFFIC CONTROL SHALL BE ACCORDING TO THE MUTCD, CURRENT EDITION, AND GDOT STANDARDS. A TRAFFIC CONTROL PLAN MUST BE APPROVED BY THE COUNTY ENGINEER PRIOR TO BEGINNING ANY WORK.

7. ADJUSTMENT OF ANY WATER METERS AND METER BOXES SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE POJECT AND SHALL BE INCLUDED IN THE OVERALL PRICE BID FOR THE PROJECT.

8. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL POST MOUNTED STREET NAME SIGNS WITHIN THE PROJECT LIMITS. IF A STREET SIGN MUST BE MOVED TO COMPLETE THE WORK, IT SHALL BE RESET AT THE END OF EACH WORK DAY.

9. ALL PIPES SHALL BE CONSTRUCTED USING REINFORCED CONCRETE PIPE. ALL CONCRETE PIPE JOINTS SHALL BE WRAPPED WITH TWO LAYERS OF FILTER FABRIC, 4'0" WIDE CENTERED ON JOINT WITH A 1'0" MINIMUM OVERLAP. THE COST FOR WRAPPING THE PIPE JOINTS SHALL BE INCLUDED IN THE OVERALL COST FOR PIPE ON THE PROJECT.

10. ALL WATER USED FOR CONSTRUCTION SHALL BE METERED THROUGH AN APPROVED BACKFLOW PREVENTION DEVICE AND FIRE HYDRANT METER.

11. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ALONG WITH STRUCTURAL CALCULATIONS FOR ALL DRAINAGE INLETS TO THE ENGINEER PRIOR TO ORDERING STRUCTURES.

12. INDIVIDUAL TREES GREATER THAN 8" DBH AND LOCATED OUTSIDE OF THE CONSTRUCTION LIMITS (CUT AND FILL LINES) SHALL NOT BE REMOVED UNLESS SPECIFICALLY CALLED OUT FOR REMOVAL. ALL SUCH TREES, AS WELL AS THOSE SPECIFICALLY LABELED FOR PROTECTION, SHALL BE PROTECTED AS PER THE COUNTY TREE PROTECTION STANDARDS FOR ROAD CONSTRUCTION PROJECTS. IF THE CONTRACTOR FEELS A TREE SHOULD BE REMOVED THAT IS NOT SHOWN AS SUCH, HE SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT A DETERMINATION CAN BE MADE. FURTHER, DURING CONSTRUCTION, THE ENGINEER MAY IDENTIFY ADDITIONAL TREES WITHIN THE PROJECT LIMITS THAT MUST BE REMOVED IN THE INTEREST OF SAFETY AND/OR MAINTENANCE. IN EITHER CASE, THE CONTRACTOR SHALL REMOVE SUCH TREES AT THE DIRECTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE COUNTY.

811

Know what's below
Call before you dig

PROJECT NOTES

1. AN NOI IS REQUIRED FOR THIS PROJECT.

2. THE DISTURBED AREA FOR THIS PROJECT IS 3.51 ACRES.

3. ANY REFERENCE TO "THE DEPARTMENT" SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN THE CHATHAM COUNTY DEPARTMENT OF ENGINEERING, AND REFERENCES TO THE "DEPARTMENT'S SPECIFICATIONS" SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN THE GEORGIA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS CURRENT EDITION.

4. CONTRACTOR SHALL BE AWARE THAT THE COMBINATION OF RECENT WEATHER AND HEAVY TRUCK TRAFFIC HAS DETERIORATED THE CONDITION OF THE EXISTING ROADBED. THE CONTRACTOR SHALL VISIT THE SITE AND SHALL BE AWARE OF THE SITE CONDITIONS PRIOR TO SUBMITTING A BID ON THIS PROJECT. SPECIFIC ISSUES TO BE AWARE OF INCLUDE THE PRESENCE OF UNSUITABLE MATERIALS THAT MUST BE REMOVED AND REPLACED WITH SUITABLE FILL BEFORE PLACING GEOGRID AND SUB GRADE; DEVIATIONS IN THE EXISTING ROADBED ELEVATIONS FROM THOSE DEPICTED IN THE PLANS; AND THE PRESENCE OF HEAVY TRUCK TRAFFIC THAT MUST BE MAINTAINED DURING CONSTRUCTION.

5. REMOVAL OF UNSUITABLE MATERIAL SHALL BE CONDUCTED BY THE CONTRACTOR AT THE DIRECTION AND SUPERVISION OF THE PROJECT ENGINEER, AND SHALL INCLUDE, BUT NOT LIMITED TO, PROOF-ROLLING IN THE PRESENCE OF THE PROJECT ENGINEER TO IDENTIFY UNACCEPTABLE AREAS. ALL WORK ASSOCIATED WITH IDENTIFYING AREAS OF UNSUITABLE MATERIAL SHALL BE INCLUDED IN PRICE BID FOR CLEARING & GRUBBING.

6. CONTRACTOR SHALL RECEIVE APPROVAL OF SUB GRADE FROM THE PROJECT ENGINEER PRIOR TO PLACING GEOGRID. GEOGRID SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. NO VEHICULAR TRAFFIC, INCLUDING CONSTRUCTION EQUIPMENT, WILL BE ALLOWED OVER THE GEOGRID UNTIL THE MINIMUM DEPTH OF COVER AS RECOMMENDED BY THE MANUFACTURER IS IN PLACE.

7. CONTRACTOR SHALL MAINTAIN A MINIMUM 20 FEET OF ROADWAY OPEN TO TRAFFIC DURING CONSTRUCTION. AGGREGATE SURFACE COURSE MAY BE USED TO MAINTAIN ROADWAY AS APPROVED BY THE PROJECT ENGINEER.

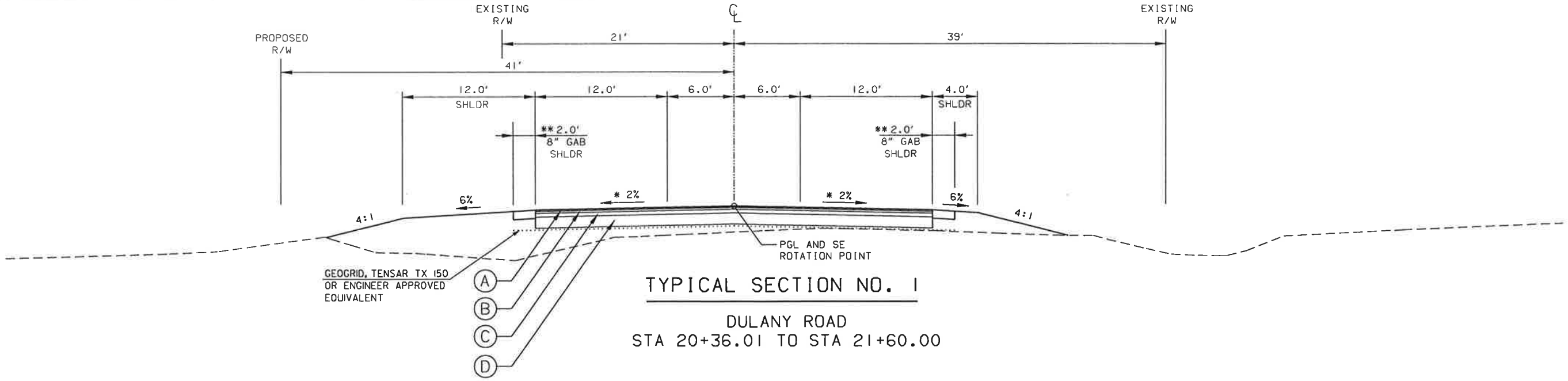
8. CONTRACTOR SHALL PROVIDE GEORGIA R.L.S. CERTIFIED PRE- AND POST-CONSTRUCTION EARTHWORK CROSS SECTIONS.

9. ENGINEER APPROVED EQUIVALENT SHALL MEAN A GEOFABRIC OR GEOGRID MANUFACTURED BY A COMPANY OTHER THAN THAT SPECIFIED IN THE PLANS AND APPROVED BY THE PROJECT ENGINEER. CONTRACTOR SHALL SUBMIT SPECIFICATIONS FOR PROPOSED MATERIALS TO THE PROJECT ENGINEER ALONG WITH A LICENSED PROFESSIONAL ENGINEER'S CERTIFICATION THAT THE PROPOSED EQUIVALENT MEETS OR EXCEEDS THE PERFORMANCE STANDARDS OF THE SPECIFIED MATERIAL. A SAMPLE OF THE PROPOSED EQUIVALENT MATERIAL MAY BE REQUIRED FOR TESTING.

ROADWAY LEGEND

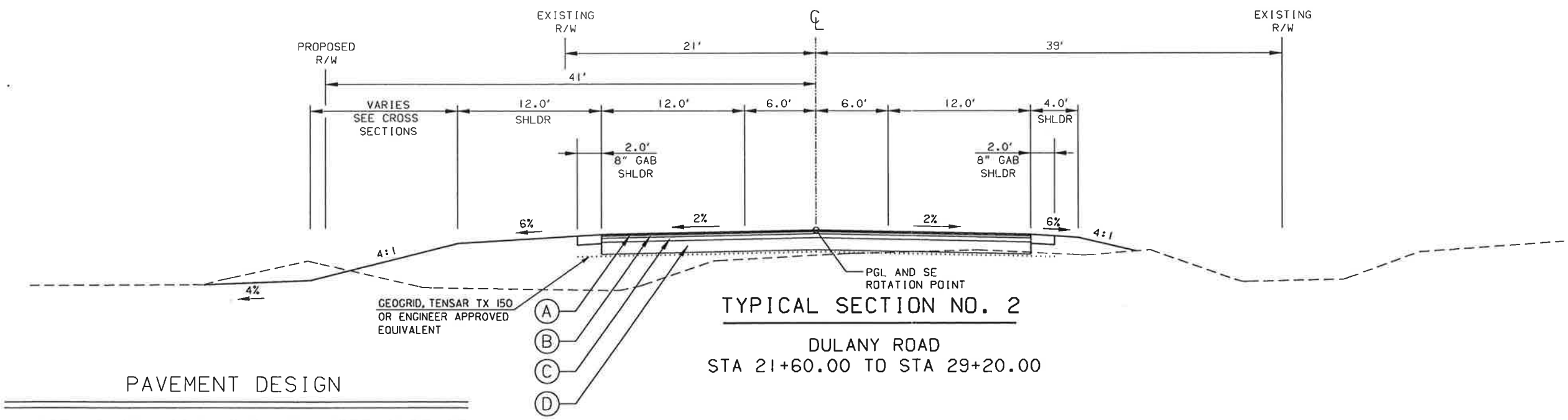
REQUIRED RIGHT OF WAY
EXISTING RIGHT OF WAY
PROPERTY LINE
CENTERLINE
DITCH OR SWALE
TYPICAL SECTION DITCH
TOP OF CUT
TOE OF FILL
EASEMENT FOR THE CONSTRUCTION AND MAINTENANCE OF DRAINAGE
EASEMENT FOR THE CONSTRUCTION OF SLOPES
EASEMENT FOR THE CONSTRUCTION OF DRIVEWAYS

FOR UTILITY LEGEND SEE SHEET 24-00



TYPICAL SECTION NO. 1

DULANY ROAD
STA 20+36.01 TO STA 21+60.00



TYPICAL SECTION NO. 2

DULANY ROAD
STA 21+60.00 TO STA 29+20.00

PAVEMENT DESIGN

(A) 165 LB/SY ASPHALTIC CONCRETE SURFACE 12.5 MM SUPERPAVE

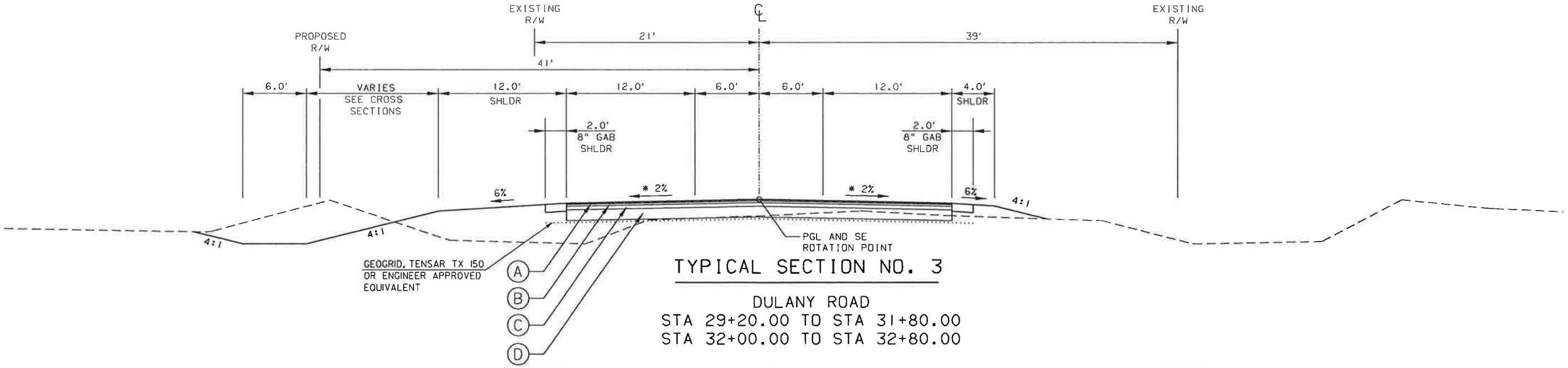
(B) 220 LB/SY ASPHALTIC CONCRETE BINDER 19.0 MM SUPERPAVE

(C) 440 LB/SY ASPHALTIC CONCRETE BASE 25.0 MM SUPERPAVE

(D) 12" GRADED AGGREGATE BASE

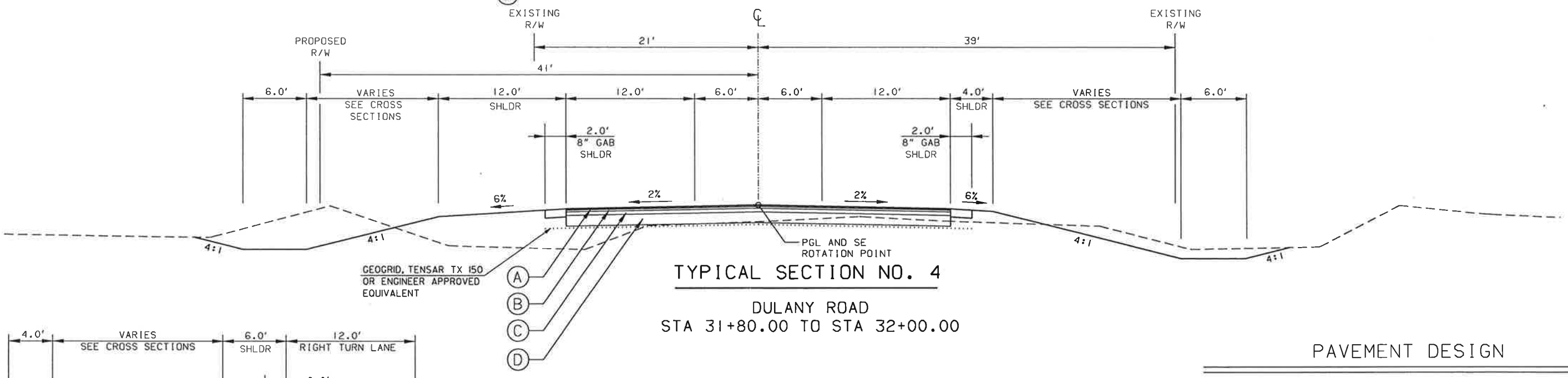
* SEE CONSTRUCTION PLANS FOR CROSS SLOPE TRANSITION TO EXISTING

** FROM STA 20+36.01 TO STA 21+37.45 LEFT AND RIGHT THE 2' SHOULDER WILL BE PAVED WITH THE SAME PAVEMENT DESIGN AS THE ROAD SEE PLANS FOR DETAILS



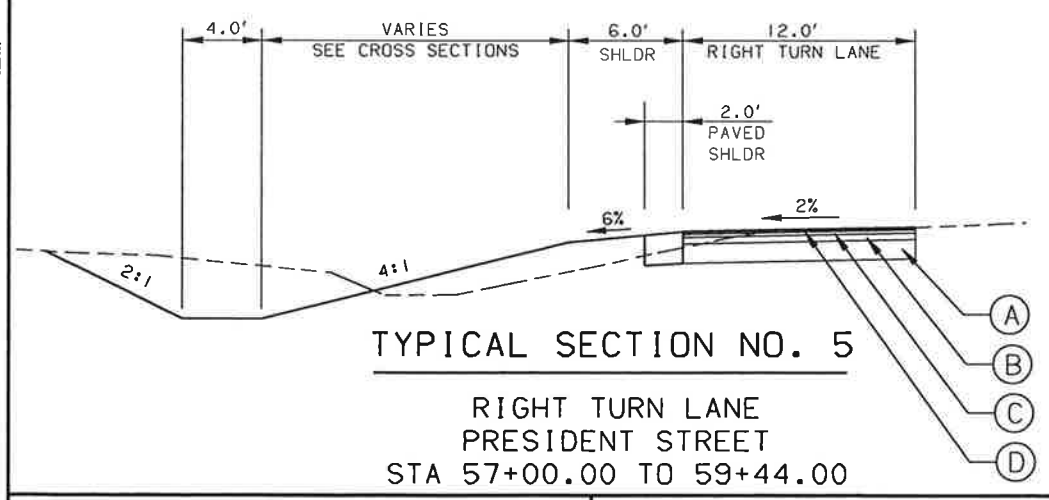
TYPICAL SECTION NO. 3

DULANY ROAD
STA 29+20.00 TO STA 31+80.00
STA 32+00.00 TO STA 32+80.00



TYPICAL SECTION NO. 4

DULANY ROAD
STA 31+80.00 TO STA 32+00.00



TYPICAL SECTION NO. 5

RIGHT TURN LANE
PRESIDENT STREET
STA 57+00.00 TO 59+44.00

* SEE CONSTRUCTION PLANS FOR CROSS SLOPE TRANSITION TO EXISTING

PAVEMENT DESIGN

(A) 165 LB/SY ASPHALTIC CONCRETE SURFACE 12.5 MM SUPERPAVE

(B) 220 LB/SY ASPHALTIC CONCRETE BINDER 19.0 MM SUPERPAVE

(C) 440 LB/SY ASPHALTIC CONCRETE BASE 25.0 MM SUPERPAVE

(D) 12" GRADED AGGREGATE BASE

REVISION DATES

McGee Partners, Inc.
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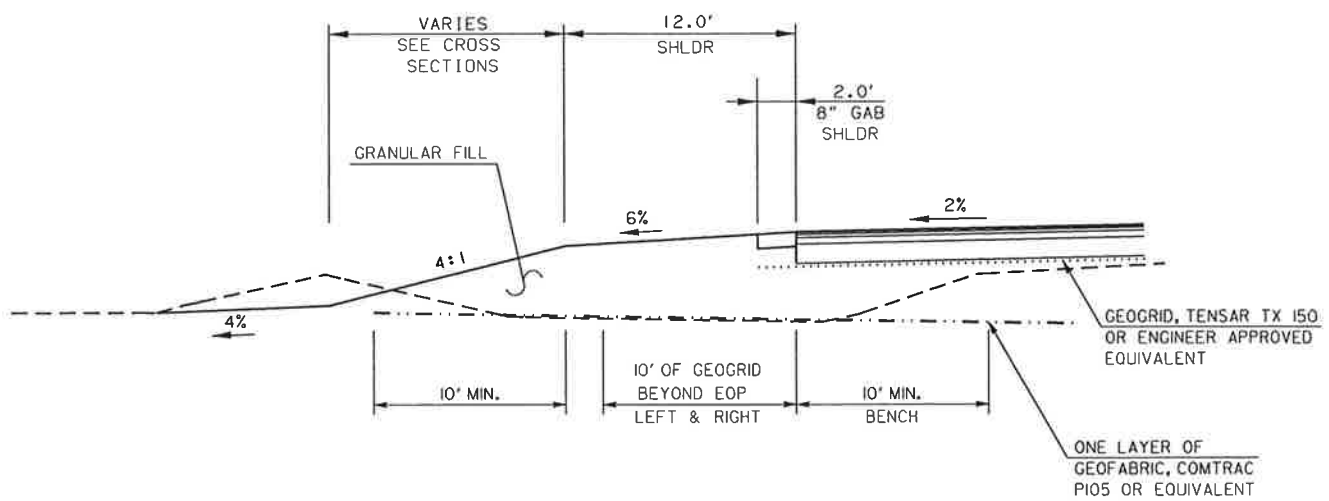
DULANY ROAD

TYPICAL SECTIONS

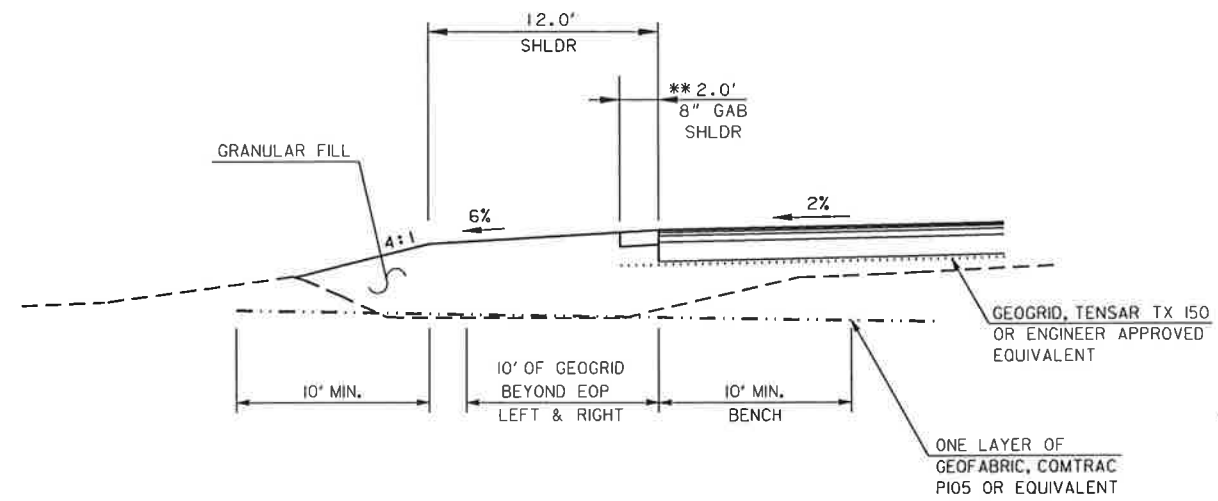
DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	5-02	

5/11/2009 10:06:09

FOUNDATION STABILIZATION DETAILS



DULANY ROAD
STA 21+60.00 TO STA 29+20.00



DULANY ROAD
STA 20+60.00 TO STA 21+60.00
STA 29+20.00 TO STA 32+20.00

NOTES:

1. TO PROVIDE STABILITY OVER LOOSE, SANDY SANDS IN LOW, WET AREAS, ONE LAYER OF HIGH STRENGTH GEOFABRIC SHALL BE PLACED ON TOP OF THE EXISTING GROUND AS SHOWN ABOVE PRIOR TO PLACING PROPOSED FILLS. BENCH ONE LAYER OF HIGH STRENGTH GEOFABRIC A MINIMUM OF 10 FT UNDER PROPOSED ROAD AND EXTEND FABRIC 10 FT BEYOND THE SHOULDER HINGE POINT.

2. CONTRACTOR SHALL PLACE GRANULAR FILL IN 8 IN LIFTS OVER GEOFABRIC AND COMPACT IN ACCORDANCE WITH STANDARD SPECIFICATIONS. GRANULAR FILL SHALL BE PLACED TO WITHIN 1' OF FINISHED GRADE. GRANULAR FILL MATERIAL AND PLACEMENT THEREOF SHALL BE INCLUDED IN PRICE BID FOR GRADING COMPLETE.

3. SHOULDER FEATURES, DIMENSIONS AND SLOPES VARY. SEE CROSS SECTIONS FOR EACH STATION RANGE LISTED.

** FROM STA 20+36.01 TO STA 21+37.45
LEFT AND RIGHT THE 2' SHOULDER
WILL BE PAVED WITH THE SAME
PAVEMENT DESIGN AS THE ROAD
SEE PLANS FOR DETAILS

DATE$$$ TIME$$$ PRF $$PENTABLE$$ $USER$ DGN

COUNTY	PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
CHATHAM	3003019	8	93

TRAFFIC CONTROL PROJECT DULANY ROAD
LUMP SUM

CLEARING & GRUBBING PROJECT DULANY ROAD
LUMP SUM

CONSTRUCTION EXITS

	CONSTR. EXIT	MAINT. OF CONSTR. EXIT
	EA	EA
PROJECT TOTAL:	1	1

RIGHT OF WAY MARKERS

	RIGHT OF WAY MARKERS
	EA
PROJECT TOTAL:	10

EARTHWORK

	IN PLACE EMBANKMENT
	CY
PROJECT TOTAL:	4000

SUMMARY OF SURFACING QUANTITIES

LOCATION	ROADWAY PAVING: RECYCLED ASPH CONC, 12.5 mm SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	RECYCLED ASPH CONC, 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	RECYCLED ASPH CONC, 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	BITUMINOUS TACK COAT	GRADED AGGREGATE BASE COURSE, INCL MATL	6 INCH CONCRETE MEDIAN TYPE 7 FACE	8 IN X 30 IN CONC CURB & GUTTER TYPE 7	DRIVEWAYS: RECYCLED ASPH CONC, 12.5 mm SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	RECYCLED ASPH CONC, 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	BITUMINOUS TACK COAT	GRADED AGGREGATE BASE COURSE, INCL MATL	AGGREGATE SURFACE COURSE
	TN	TN	TN	GL	TN	SY	LF	TN	TN	GL	TN	TN
BEGIN TO STA 22+80	124	166	331	172	860	47	24	1	1	1	2	23
STA 22+80 TO STA 27+40	159	213	425	221	1157							
STA 27+40 TO STA 32+00	160	213	426	221	1146			4	5	2	14	110
STA 32+00 TO END	65	87	174	90	447							148
PRESIDENT ST. STA 56+70 TO END	32	42	85	44	212							
												*919
PROJECT TOTAL:	540	721	1441	748	4542	47	24	5	6	3	16	1200

* AS DIRECTED BY ENGINEER

SUMMARY OF DRAINAGE QUANTITIES

STR. NO.	LOCATION	STORM DRAIN PIPE: 30 INCH H=1-10	STORM DRAIN PIPE: 36 INCH H=1-10	FOUNDATION BACKFILL MATERIAL TP II	MANHOLES STD 1011A TYPE 1 H= 6' OR LESS	FLARED END SECTION STD 1120: 30 INCH STORM DRAIN	FLARED END SECTION STD 1120: 36 INCH STORM DRAIN
		LF	LF	CY	EA	EA	EA
A3	STA 20+64.16, 78.88 RT	8.0		1.24		1	
A2	STA 20+57.36, 71.51 RT	159.4		24.74	1		
A1	STA 20+63.74, 89.75 LT					1	
B2	STA 31+80.00, 30.30 RT		67.0	12.30			1
B1	STA 31+80.00, 36.70 LT						1
C2	STA 33+32.10, 52.28 RT		108.0	19.83			1
C1	STA 33+21.41, 55.18 LT						1
PROJECT TOTAL:		167.4	175.0	58.11	1	2	4

TEMPORARY EROSION CONTROL

	TEMPORARY GRASSING	CONSTR. & REMOVE SILT CONTROL GATE TYPE 3	MAINT. SILT CONTROL GATE TYPE 3	TEMPORARY SILT FENCE TYPE B	TEMPORARY SILT FENCE TYPE C	MAINT. OF SILT FENCE TYPE B	MAINT. OF SILT FENCE TYPE C	FERTILIZER MIXED GRADE	CONSTR & REMOVE FABRIC CHECK DAM TYPE C SILT FENCE	MAINTENANACE OF CHECK DAMS ALL TYPES	WATER QUALITY MONITORING & SAMPLING	WATER QUALITY INSPECTIONS	MULCH FILTER BERM	MULCH
	AC	EA	EA	LF	LF	LF	LF	TN	LF	LF	EA	MO	LF	TN
PROJECT TOTAL:	3	4	4	1354	1006	677	503	1	500	250	1	6	241	100

PERMANENT EROSION CONTROL

	STONE DUMPED RIP RAP TYPE 3, 18 IN	STONE GROUTED RIP RAP 24 IN	PLASTIC FILTER FABRIC	TURF ESTABLISHMENT TYPE C
	SY	SY	SY	AC
PROJECT TOTAL:	55	64	119	3

WETLAND PROTECTION

	BARRIER FENCE (ORANGE) 4FT
INSTALL AND REMOVE	LF
PROJECT TOTAL:	518

DITCH PROTECTION

	PERMANENT SOIL REINFORCING MAT
	SY
PROJECT TOTAL:	118

FOUNDATION STABILIZATION

	GEOGRID REINFORCEMENT, TENSAR TX 150 OR EQUIVALENT	GEOFABRIC, COMTRAC P105 OR EQUIVALENT
	SY	SY
PROJECT TOTAL:	4700	4125

REVISION DATES

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DULANY ROAD

SUMMARY QUANTITIES

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	6-01	

3/11/2008 CONVERP

SUMMARY OF SIGNING QUANTITIES

LOCATION	INSTL. NO.	CODE	HIGHWAY SIGNS: TYPE 3 SHEETING TYPE I SIZE	QTY	SF	TYPE 9 SHEETING TYPE I SIZE	QTY	SF	POSTS TYPE 7 LENGTH LF	QTY	LF	POSTS TYPE 9 LENGTH LF	QTY	LF	RESET SIGN EA
STA 55+51LT		R1-2				36" X 36" X 36"	1	3.90	14.50	1	14.50				
STA 20+58 RT		R1-1										16.00	1	16.00	1
STA 20+58 RT		D3-1													1
STA 20+58 RT		D3-1													1
STA 20+58 RT		R6-3A	30" X 24"	1	5.00										
STA 20+75 LT		R1-2				36" X 36" X 36"	1	3.90	14.75	1	14.75				
STA 21+80 LT		R2-1	24" X 30"	1	5.00				14.50	1	14.50				
STA 31+95 RT		R1-1				36" X 36"	1	7.46	14.50	1	14.50				
STA 32+84 CL		W1-7				48" X 24"	1	8.00	13.00	1	13.00				
STA 56+95 LT		R5-1				30" X 30"	1	6.25	14.00	1	14.00				
STA 58+95 LT		R1-1A				36" X 24"	1	6.00	13.50	1	13.50				
PROJECT TOTAL:					10.00			35.51			98.75			16.00	3

SUMMARY OF STRIPING QUANTITIES

LOCATION	THERMOPLASTIC PAVEMENT MARKING: SOLID WHITE 5 INCH LF	SOLID YELLOW 5 INCH LF	SOLID WHITE 24 INCH LF	SKIP WHITE 5 INCH GLF	HATCHING WHITE SY	HATCHING YELLOW SY	ARROW TYPE 2 EA	RAISED PAVEMENT MARKERS TYPE 1 EA	RAISED PAVEMENT MARKERS TYPE 3 EA
BEGIN TO STA 22+80	741	444	13		99		2	14	9
STA 22+80 TO STA 27+40	1180	519		240		22	4	18	14
STA 27+40 TO STA 32+00	1375	910	25			130	6	12	23
STA 32+00 TO END	119								
PRESIDENT ST. STA 56+70 TO END	453	100					2		9
PROJECT TOTAL:	3868	1973	38	240	99	152	14	44	55

1. ALL STANDARD HIGHWAY SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND THE GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.

2. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD LOCATIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR WITHOUT PRIOR APPROVAL FROM THE PROJECT ENGINEER.

3. ALL STANDARD HIGHWAY SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN ASSEMBLY.

4A. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS MOUNTED BEHIND GUARDRAIL SHALL BE 6 FEET FROM THE FACE OF THE GUARDRAIL TO THE NEARER EDGE OF THE SIGN(S).

4B. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON ALL OTHER ROADWAYS SHALL BE 6 FEET FROM THE EDGE OF THE PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTIONS SHALL BE AT LEAST 2 FEET FORM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).

5. SINGLE PLATE, HORIZONTAL RECTANGULAR SIGNS OVER 48 INCHES IN WIDTH SHALL BE MOUNTED ON TWO POSTS WITH 2 EACH 2 INCH X ½ INCH X (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAPS. THE STRAPS SHALL BE FLUSH WITH THE BACK OF THE SIGN WITH ONE EACH ACROSS THE TOP AND BOTTOM OF THE SIGN. THE CENTERLINE OF EACH POST SHALL BE INSET 1/6TH OF THE SIGN WIDTH FROM THE EDGE OF THE SIGN. SIGN PLATE BOLT HOLES SHALL BE ⅜ INCH DIAMETER, DRILLED OR PUNCHED, AS SHOWN ON THE SIGN PLATE DETAILS.

6. EACH 42 OR 48 INCH WIDE X 18 OR 24 INCH HIGH SIGN REQUIRES ONE 2 INCH X ½ INCH X (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAP LOCATED IN THE CENTER OF THE SIGN AND FLUSH WITH THE BACK OF THE SIGN.

7. SIGN ASSEMBLIES SHALL BE MOUNTED ON ALUMINUM OR GALVANIZED STEEL STRAP FRAMES. FOR DETAILS AND STRAP SPECIFICATIONS REFER TO SIGN ASSEMBLY-TYPICAL FRAMING DETAILS.

8. TYPE III (ENCAPSULATED LENS) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.

9. TYPE IX (WIDE ANGLE PRISMATIC) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3A, R1-4A, R5-1A).

10. TYPE IX (WIDE ANGLE PRISMATIC) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (S1-1, S2-1, S3-1, S4-3, AND THE TOP PORTION OF THE S5-1) SIGNS, BICYCLE CROSSING (W11-1) SIGNS, AND PEDESTRIAN CROSSING (W11-2 AND W11A-2) SIGNS. SIGNS WITHIN THE SAME ASSEMBLY AS THE SCHOOL ZONE SIGNS SPECIFICALLY LISTED ABOVE AND ALL REGULATORY SIGNS PLACED AS PART OF THE SCHOOL ZONE SIGNING SHALL HAVE TYPE IX (WIDE ANGLE PRISMATIC) REFLECTIVE SHEETING BACKGROUNDS OF THE APPROPRIATE COLOR.

11. TYPE IX (WIDE ANGLE PRISMATIC) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.

12. A ½ INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY.

13. WHERE SIGNS WITHIN AN ASSEMBLY EXTEND BELOW THE STANDARD MOUNTING HOLES ON THE POST(S), ADDITIONAL ⅜ INCH DIAMETER HOLE(S), DRILLED OR PUNCHED, SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY.

14. FOR DETAILS OF SPECIAL DESIGN HIGHWAY SIGNS, SEE DETAILS OF MISCELLANEOUS SIGNS.

15. CONTRACTOR SHALL, AS REQUESTED BY THE PROJECT ENGINEER, BE REQUIRED TO REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THE INCLUDED SIGN PLANS.

DETAILED ESTIMATE

ITEM NO.	ITEM DESCRIPTION	UNITS	QUANTITY
	ROADWAY		
150-1000	TRAFFIC CONTROL - DULANY ROAD	LS	1
201-1500	CLEARING & GRUBBING - DULANY ROAD	LS	1
207-0203	FOUND BKFILL MATL, TP II	CY	59
208-0100	IN PLACE EMBANKMENT	CY	4000
310-1101	GR AGGR BASE CRS, INCL MATL	TN	4600
318-3000	AGGR SURF CRS	TN	1200
402-3121	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	1500
402-3130	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	TN	550
402-3190	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	730
413-1000	BITUM TACK COAT	GL	1000
441-0748	CONCRETE MEDIAN, 6 IN	SY	47
441-6740	CONC CURB & GUTTER, 8 IN X 30 IN, TP 7	LF	24
457-9991	GEOGRID REINFORCEMENT, TENSAR TX 150 OR ENGINEER APPROVED EQUIVALENT	SY	4700
457-9992	GEOFABRIC, COMTRAC P105 OR ENGINEER APPROVED EQUIVALENT	SY	4200
550-1300	STORM DRAIN PIPE, 30 IN, H 1-10	LF	170
550-1360	STORM DRAIN PIPE, 36 IN, H 1-10	LF	180
550-4230	FLARED END SECTION 30 IN, STORM DRAIN	EA	2
550-4236	FLARED END SECTION 36 IN, STORM DRAIN	EA	4
634-1200	RIGHT OF WAY MARKERS	EA	10
643-8200	BARRIER FENCE (ORANGE), 4 FT	LF	520
668-4300	STORM SEWER MANHOLE, TP 1	EA	1
	PERMANENT EROSION CONTROL		
603-1224	STN GROUTED RIP RAP, 24 IN	SY	64
603-2181	STN DUMPED RIP RAP, TP 3, 18 IN	SY	55
603-7000	PLASTIC FILTER FABRIC	SY	120
706-1003	TURF ESTABLISHMENT, TP C	AC	3
710-9000	PERMANENT SOIL REINFORCING MAT	SY	120
	TEMPORARY EROSION CONTROL		
163-0232	TEMPORARY GRASSING	AC	3
163-0240	MULCH	TN	100
163-0300	CONSTRUCTION EXIT	EA	1
163-0503	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 3	EA	4
163-0528	CONSTRUCT AND REMOVE FABRIC CHECK DAM - TYPE C SILT FENCE	LF	500
163-9991	MULCH FILTER BERM	LF	250
165-0020	MAINTENANCE OF TEMPORARY SILT FENCE, TP B	LF	700
165-0030	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	LF	550
165-0041	MAINTENANCE OF CHECK DAMS - ALL TYPES	LF	250
165-0087	MAINTENANCE OF SILT CONTROL GATE, TP 3	EA	4
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	EA	1
167-1000	WATER QUALITY MONITORING AND SAMPLING	EA	1
167-1500	WATER QUALITY INSPECTIONS	MO	6
171-0020	TEMPORARY SILT FENCE, TYPE B	LF	1400
171-0030	TEMPORARY SILT FENCE, TYPE C	LF	1100
700-8000	FERTILIZER MIXED GRADE	TN	1
	SIGNING AND MARKING		
611-5551	RESET SIGN	EA	3
636-1020	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	SF	10
636-1033	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	SF	36
636-2070	GALV STEEL POSTS, TP 7	LF	99
636-2090	GALV STEEL POSTS, TP 9	LF	16
653-0120	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	EA	14
653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	LF	3900
653-1502	THERMOPLASTIC SOLID TRAFFIC STRIPE, 5 IN, YELLOW	LF	2000
653-1704	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	LF	38
653-3501	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	GLF	240
653-6004	THERMOPLASTIC TRAF STRIPING, WHITE	SY	99
653-6006	THERMOPLASTIC TRAF STRIPING, YELLOW	SY	160
654-1001	RAISED PVMT MARKERS TP 1	EA	44
654-1003	RAISED PVMT MARKERS TP 3	EA	55

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REVISION DATES

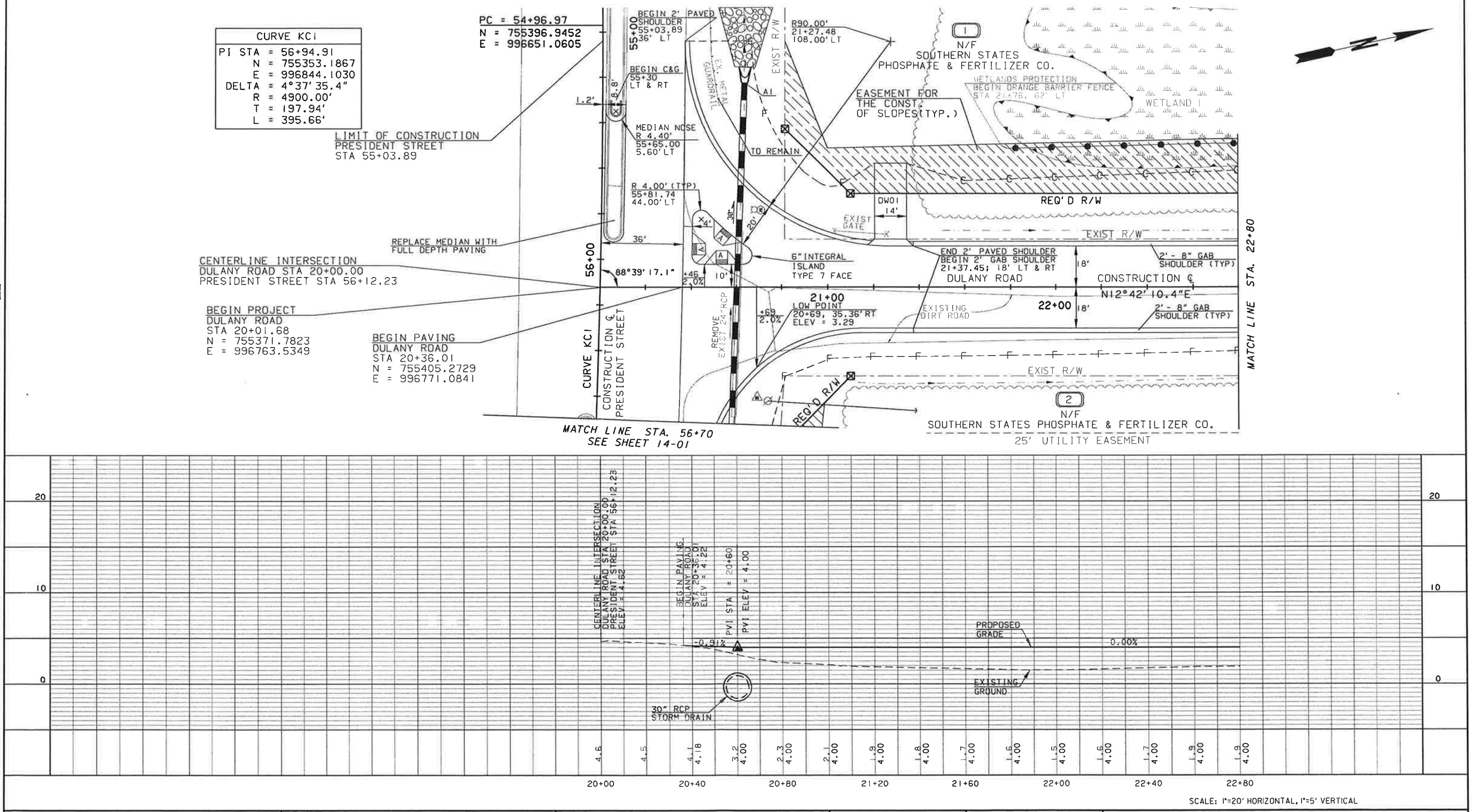
DULANY ROAD

DETAILED ESTIMATE

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	300319	9-01	

COUNTY	PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
CHATHAM	300319	10	93

DATE$$$ $USER$ TIME$$$ #PN# $PENTABLE$$ DGN



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0 20 40 80

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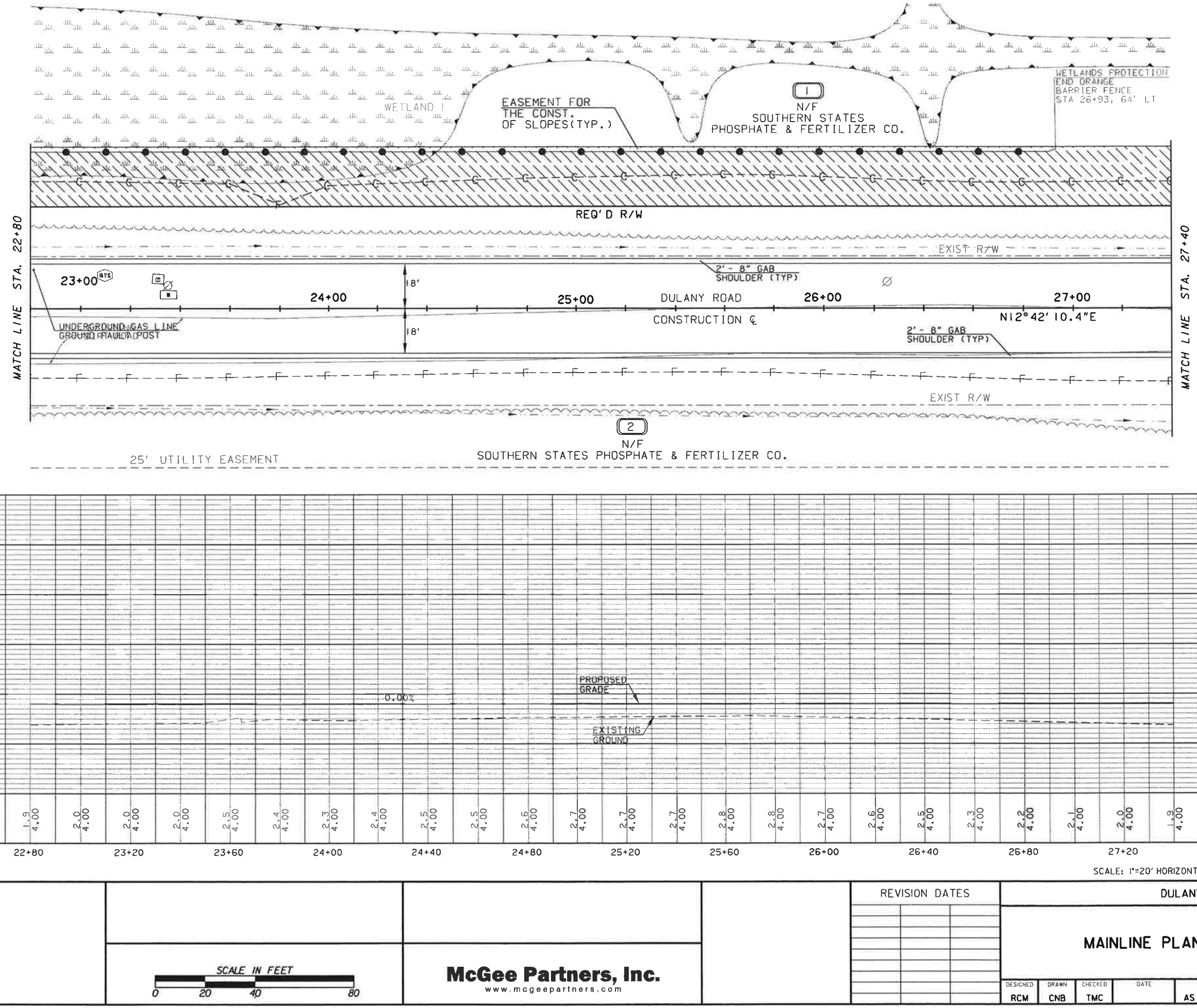
REVISION DATES

DULANY ROAD

MAINLINE PLAN AND PROFILE

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	13-01	

7/1/2006
DGN8CR



SCALE IN FEET
0 20 40 80

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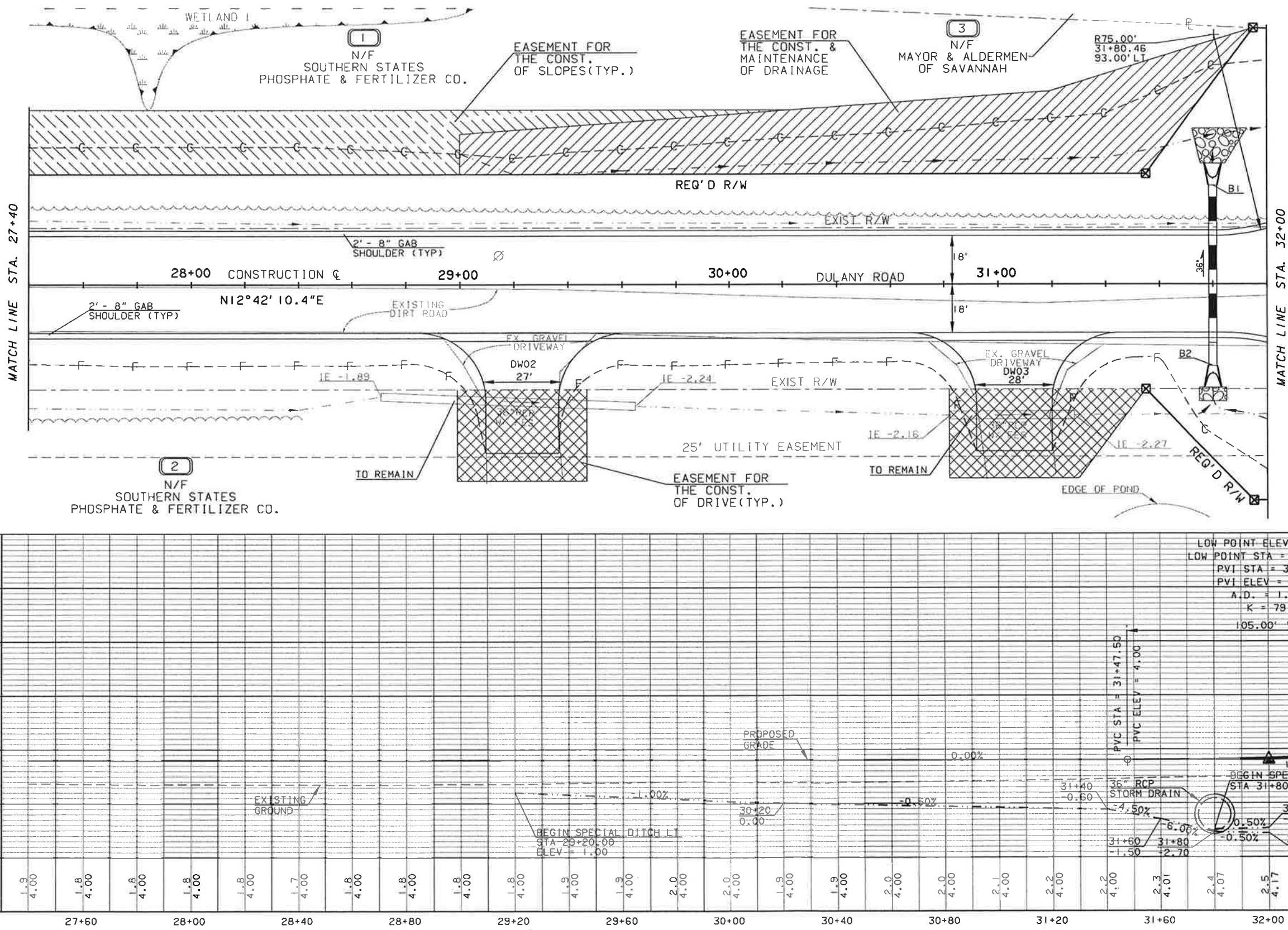
REVISION DATES

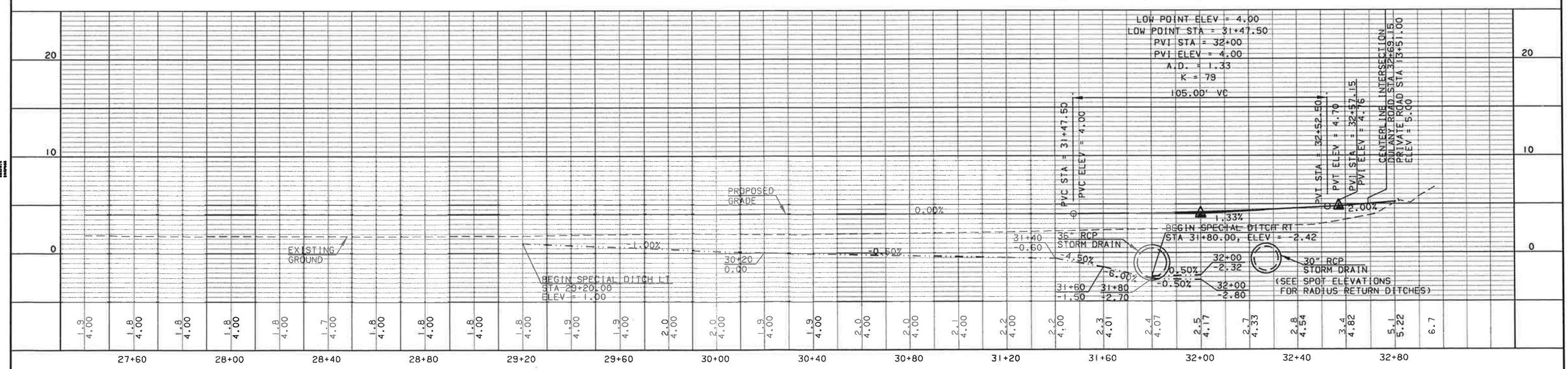
DULANY ROAD

MAINLINE PLAN AND PROFILE

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	13-02	

3/1/2006 CANSDR





SCALE: 1"=20' HORIZONTAL, 1"=5' VERTICAL

SCALE IN FEET
0 20 40 80

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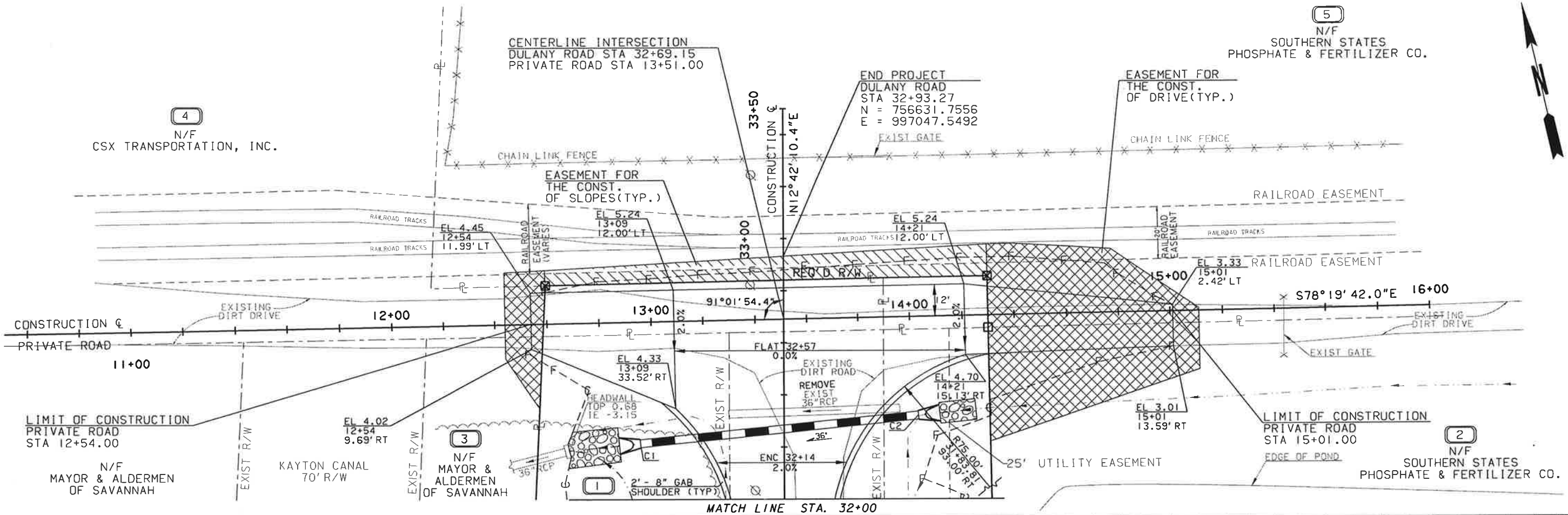
REVISION DATES

DULANY ROAD

MAINLINE PLAN AND PROFILE

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	13-03	

1/1/2008 CONSOR



SCALE IN FEET
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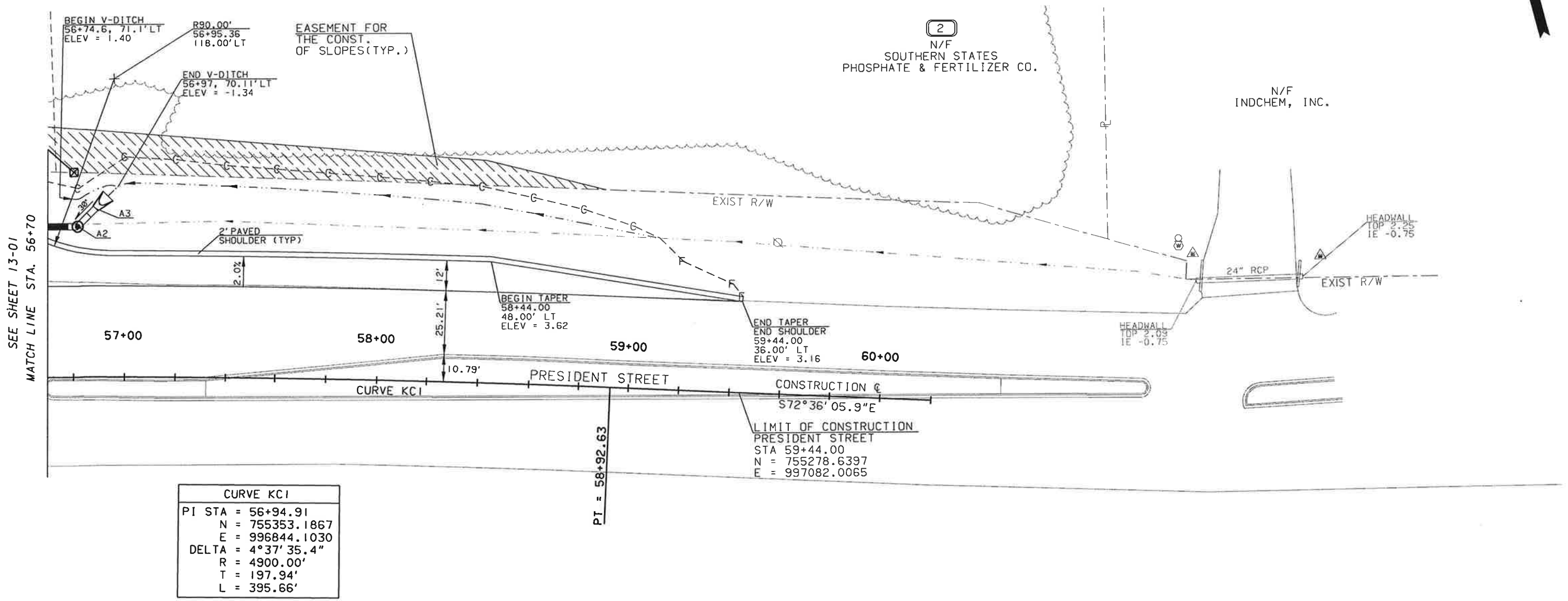
REVISION DATES

DULANY ROAD

MAINLINE PLAN AND PROFILE

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	13-04	

1/4/2008 CONBOR



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E = 996844.1030
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R = 4900.00'
T = 197.94'
L = 395.66'

SCALE IN FEET
0 20 40 80

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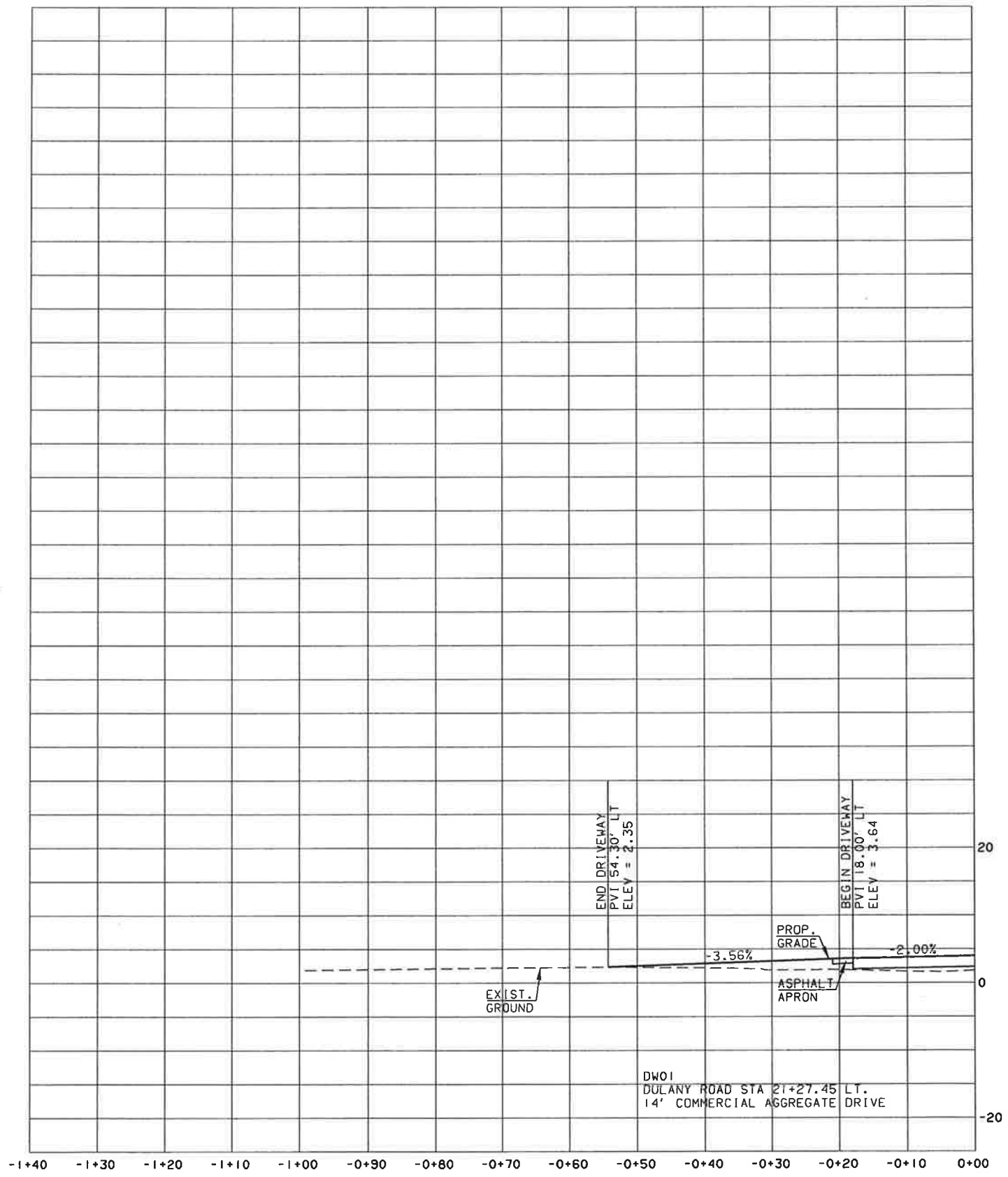
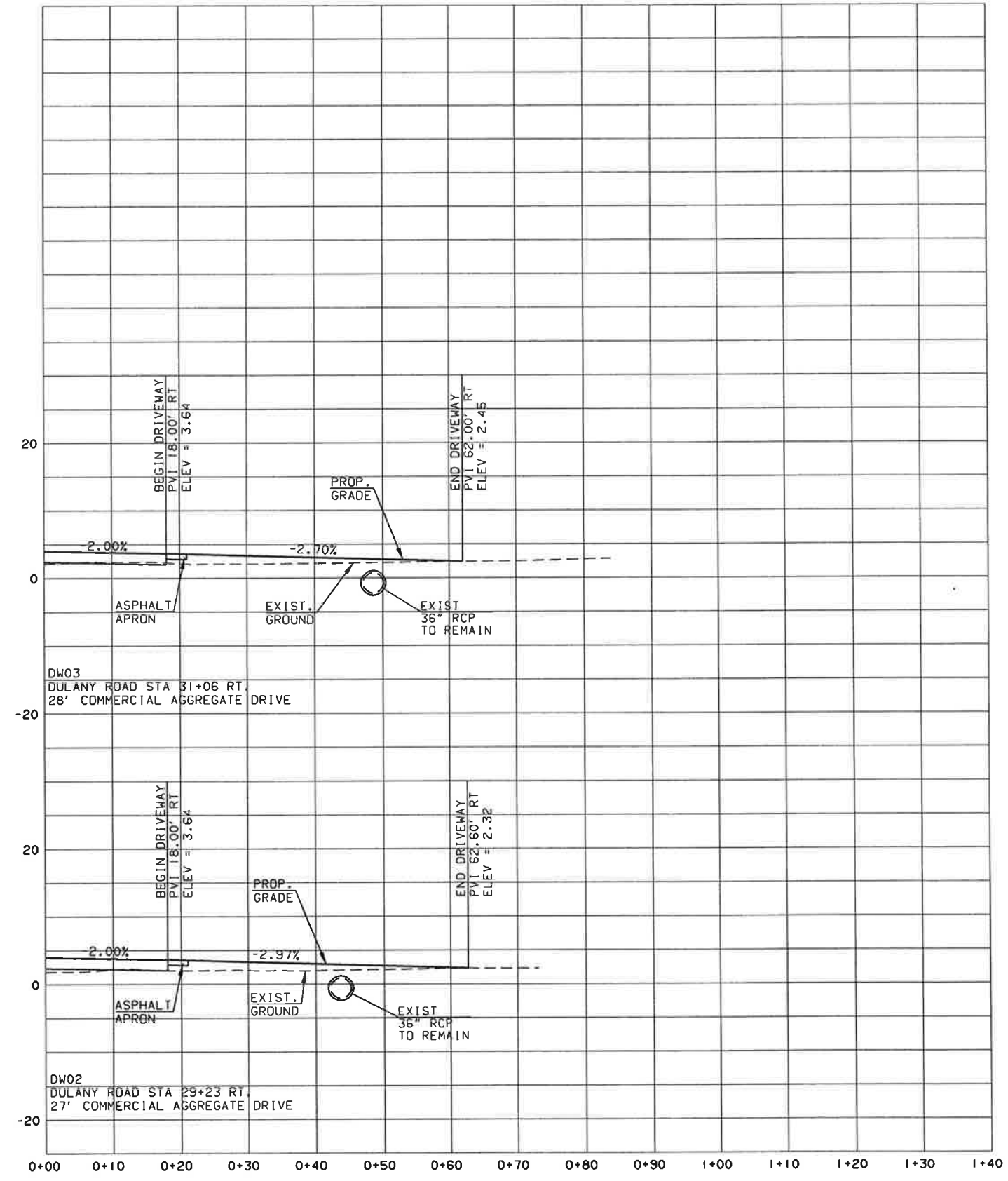
REVISION DATES

DULANY ROAD

CROSSROAD PLAN AND PROFILE

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	14-01	





SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

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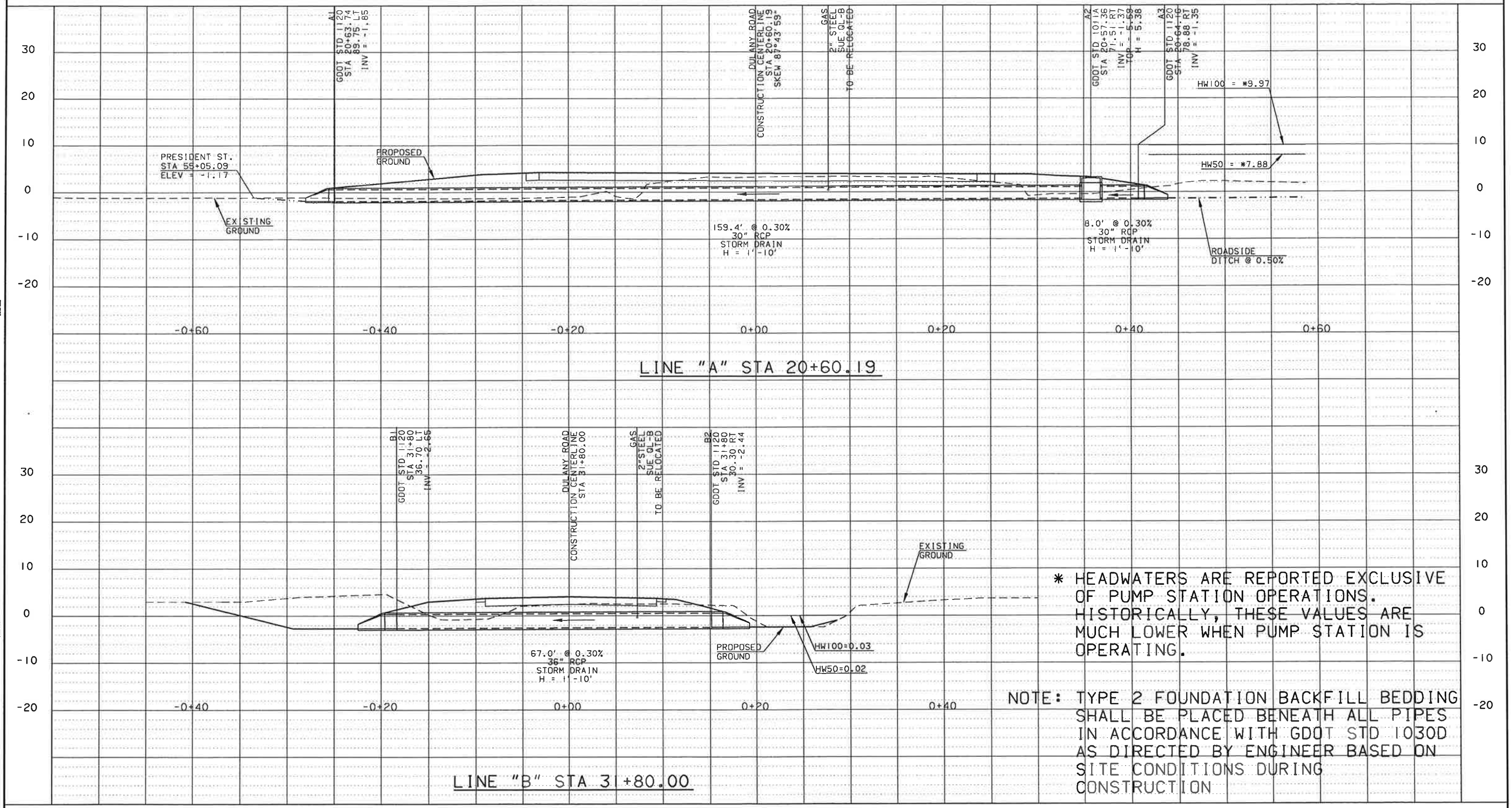
REVISION DATES

DULANY ROAD

DRIVEWAY PROFILE

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	17-01	

3/17/2009 CONESDR



* HEADWATERS ARE REPORTED EXCLUSIVE OF PUMP STATION OPERATIONS. HISTORICALLY, THESE VALUES ARE MUCH LOWER WHEN PUMP STATION IS OPERATING.

NOTE: TYPE 2 FOUNDATION BACKFILL BEDDING SHALL BE PLACED BENEATH ALL PIPES IN ACCORDANCE WITH GDOT STD 1030D AS DIRECTED BY ENGINEER BASED ON SITE CONDITIONS DURING CONSTRUCTION

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

REVISION DATES

DULANY ROAD

DRAINAGE CROSS SECTIONS

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	22-01	

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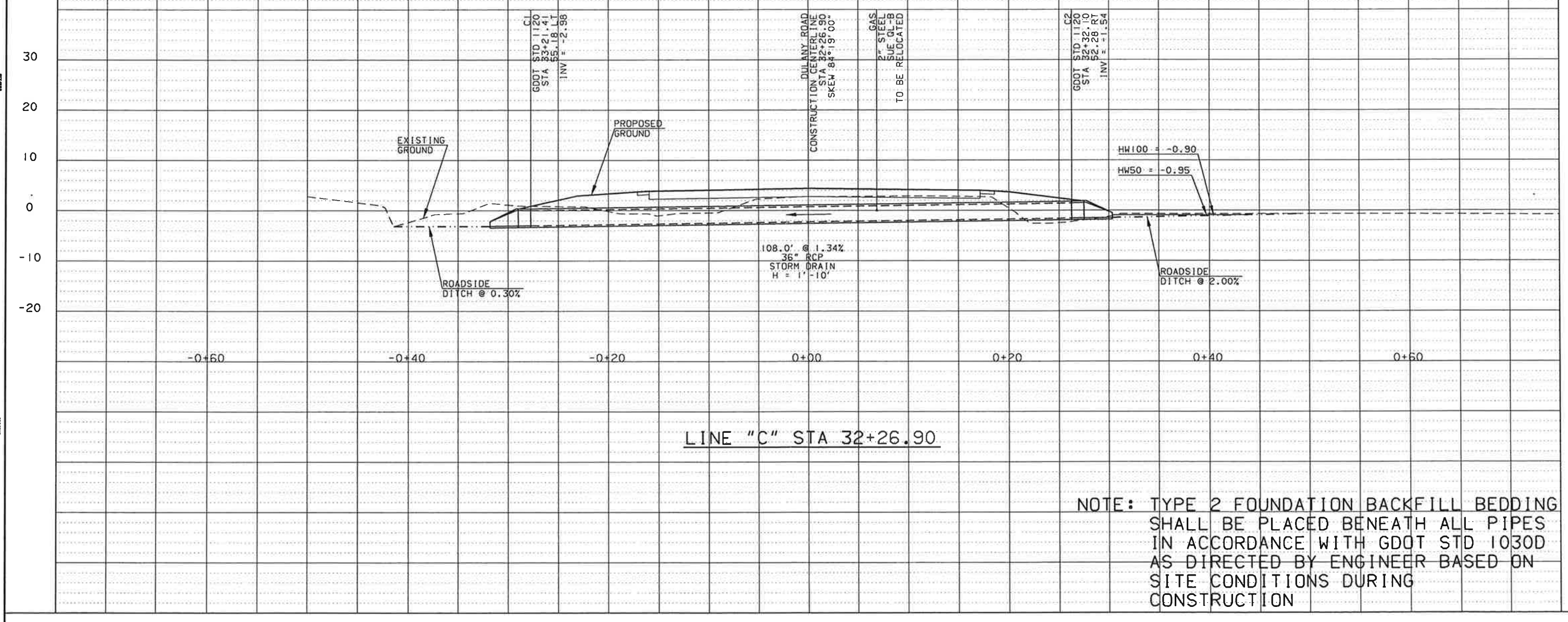
5/1/2026 10:06:06



NOTE: TYPE 2 FOUNDATION BACKFILL BEDDING SHALL BE PLACED BENEATH ALL PIPES IN ACCORDANCE WITH GDOT STD 1030D AS DIRECTED BY ENGINEER BASED ON SITE CONDITIONS DURING CONSTRUCTION

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

REVISION DATES

DULANY ROAD

DRAINAGE CROSS SECTIONS

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	22-02	

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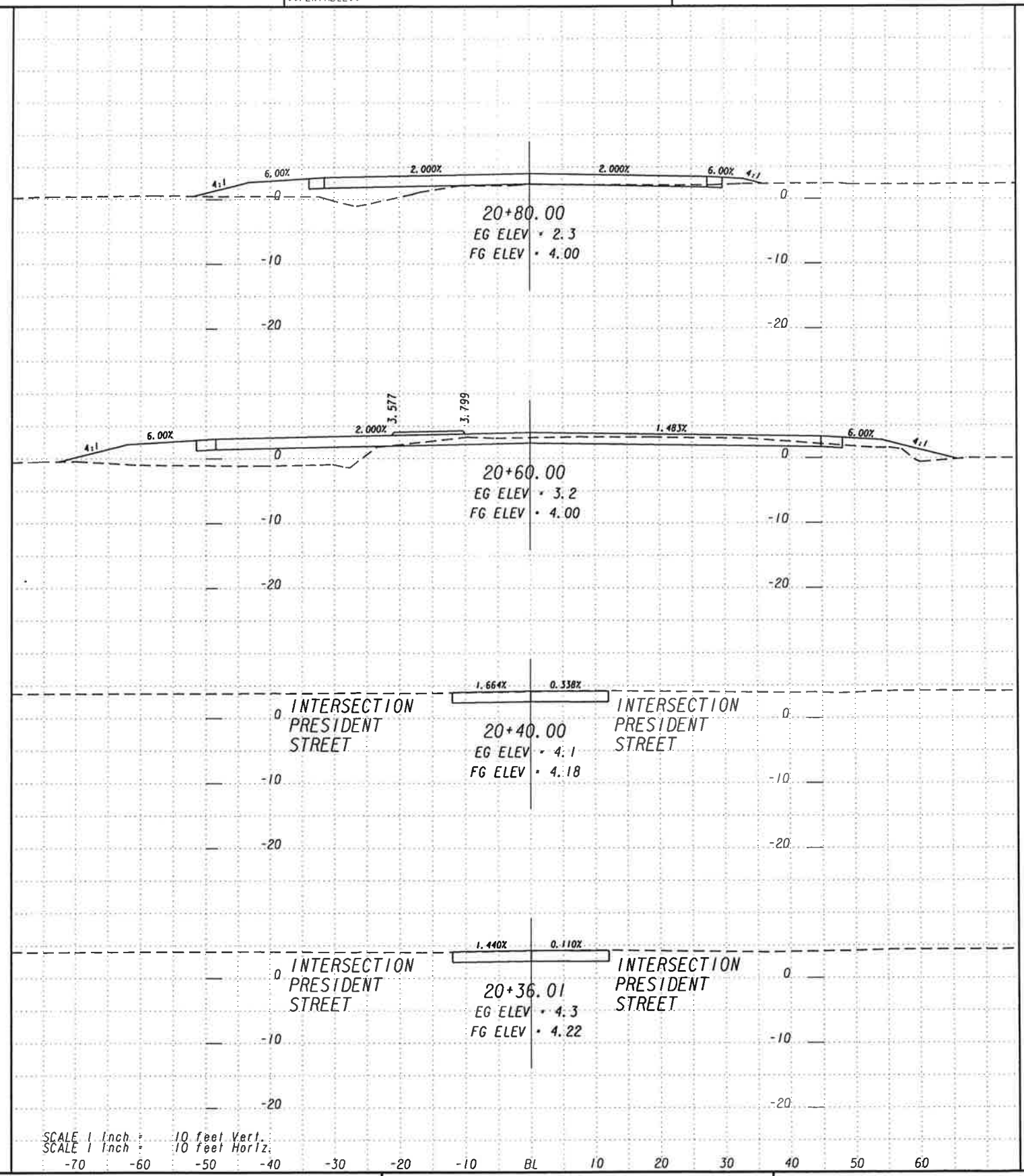

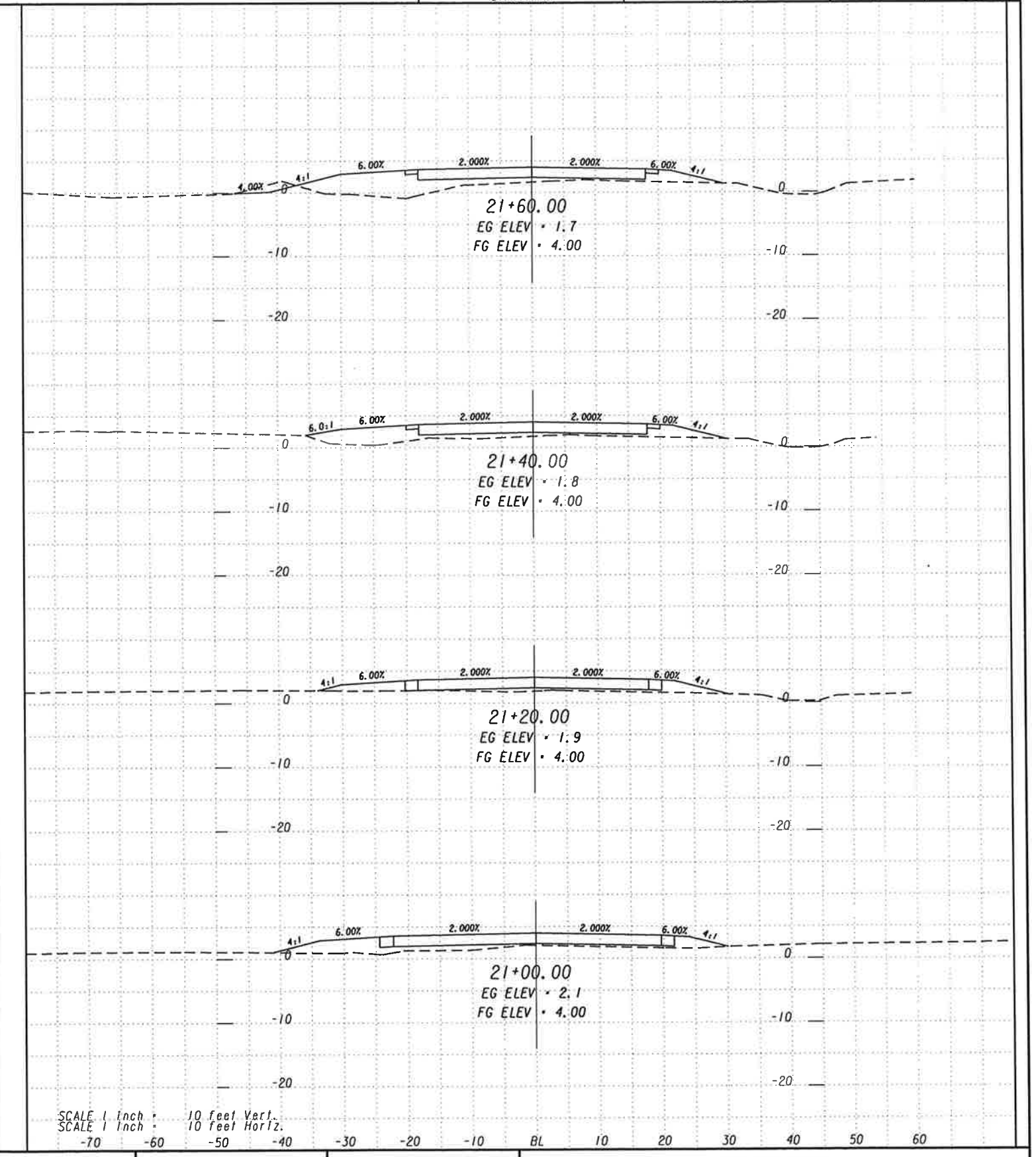

REVISION DATES

DULANY ROAD

EARTHWORK CROSS SECTIONS
DULANY ROAD

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	23-01	

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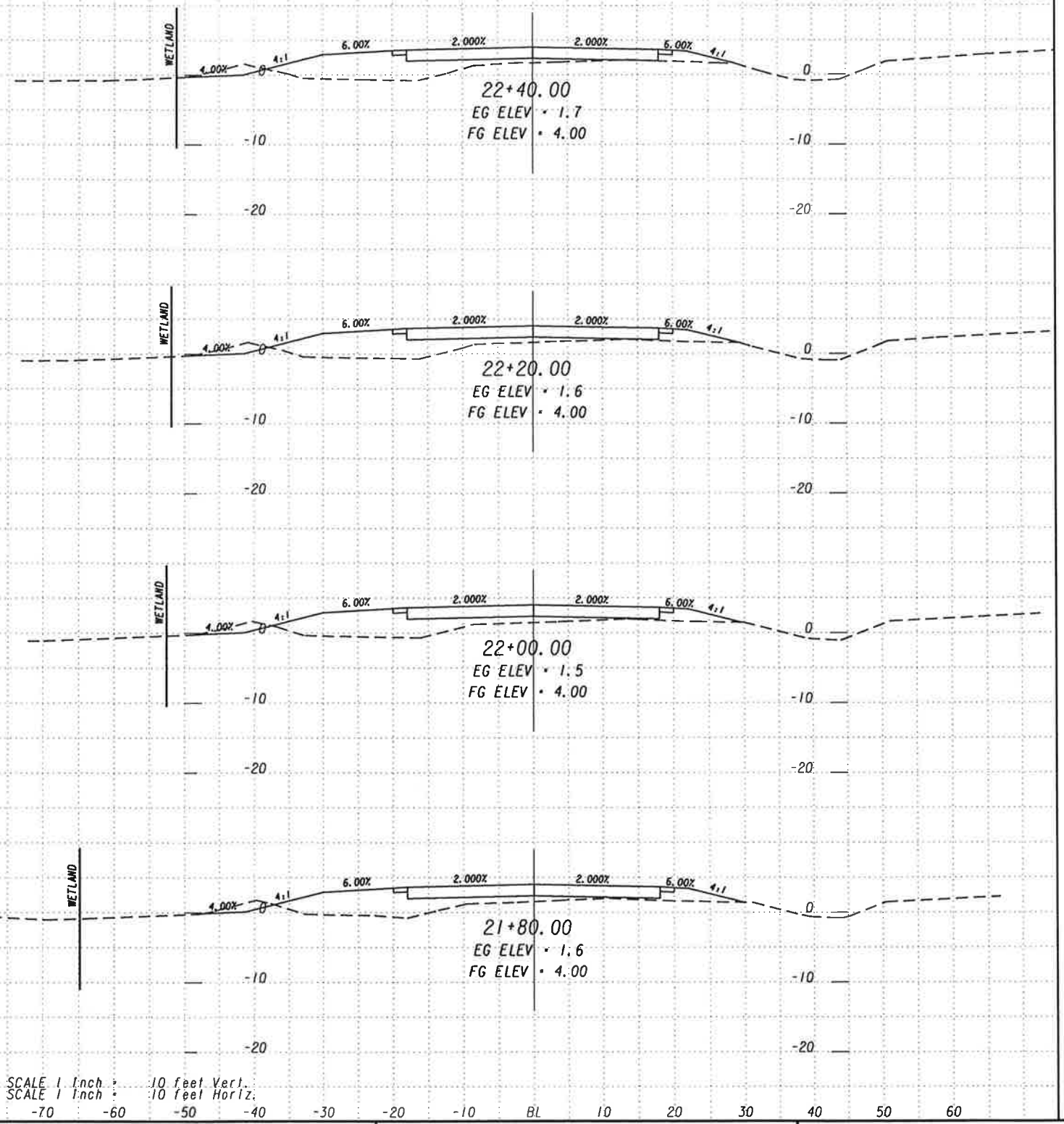
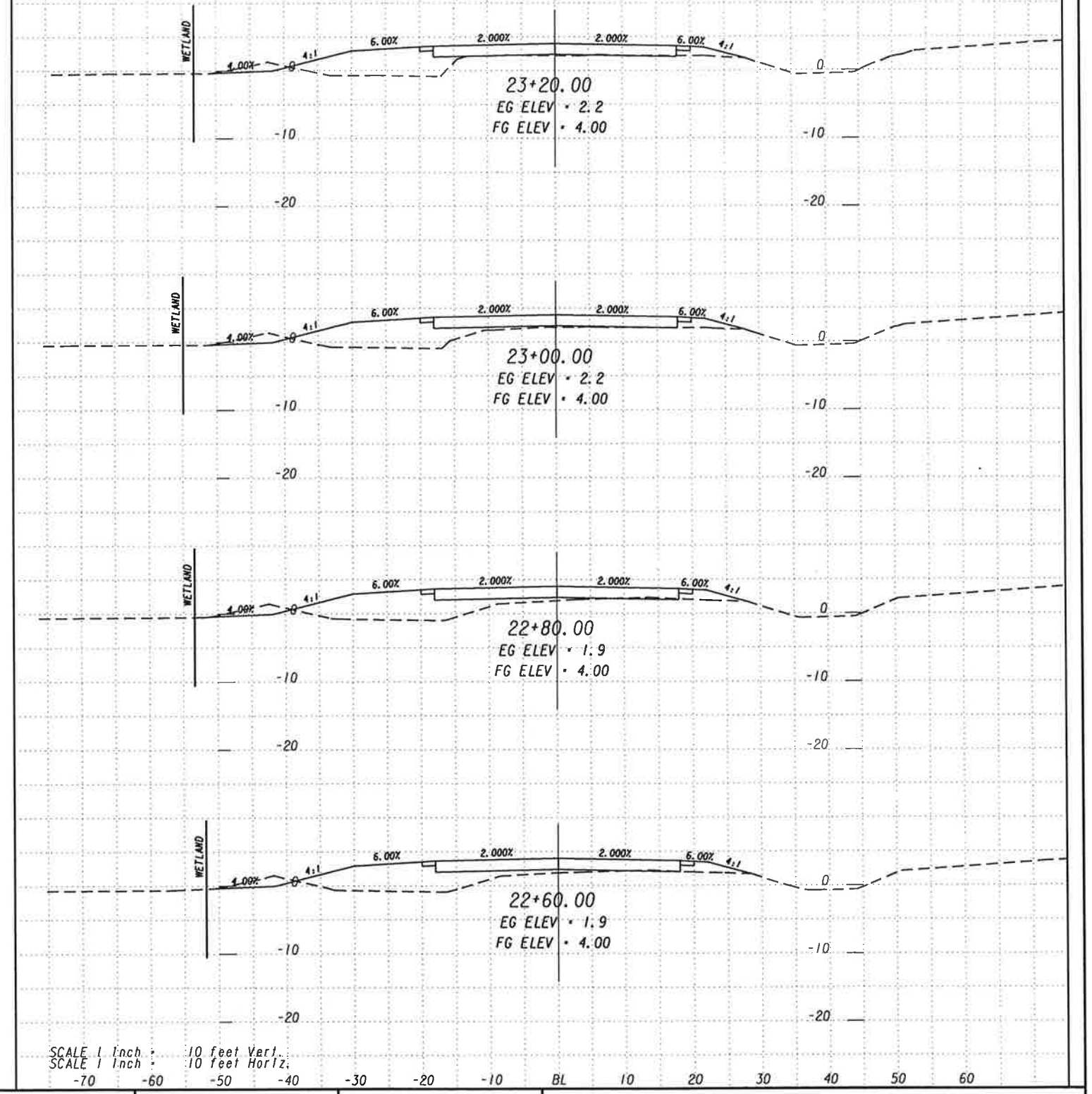
3/11/2008 CNBOR





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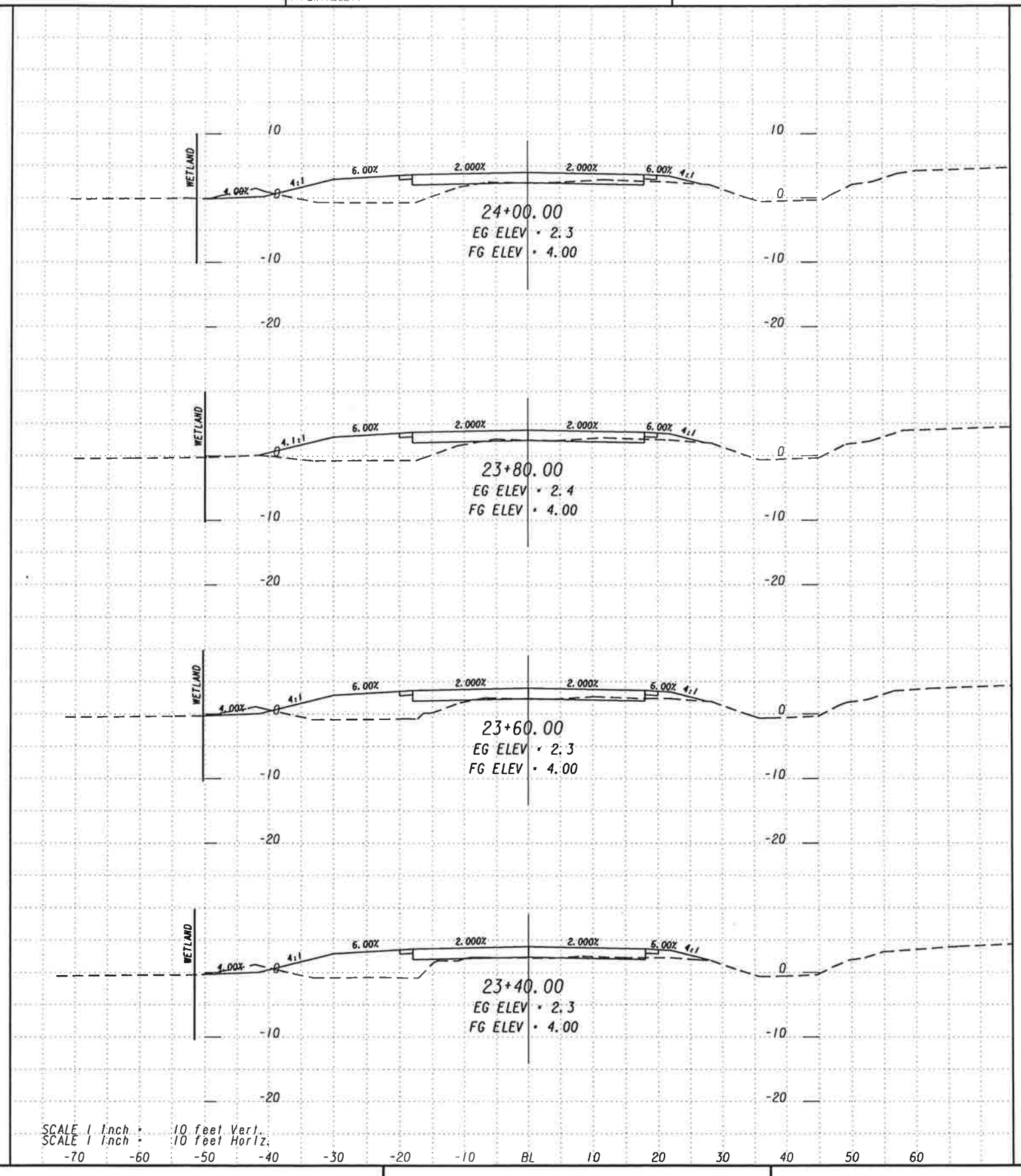
REVISION DATES

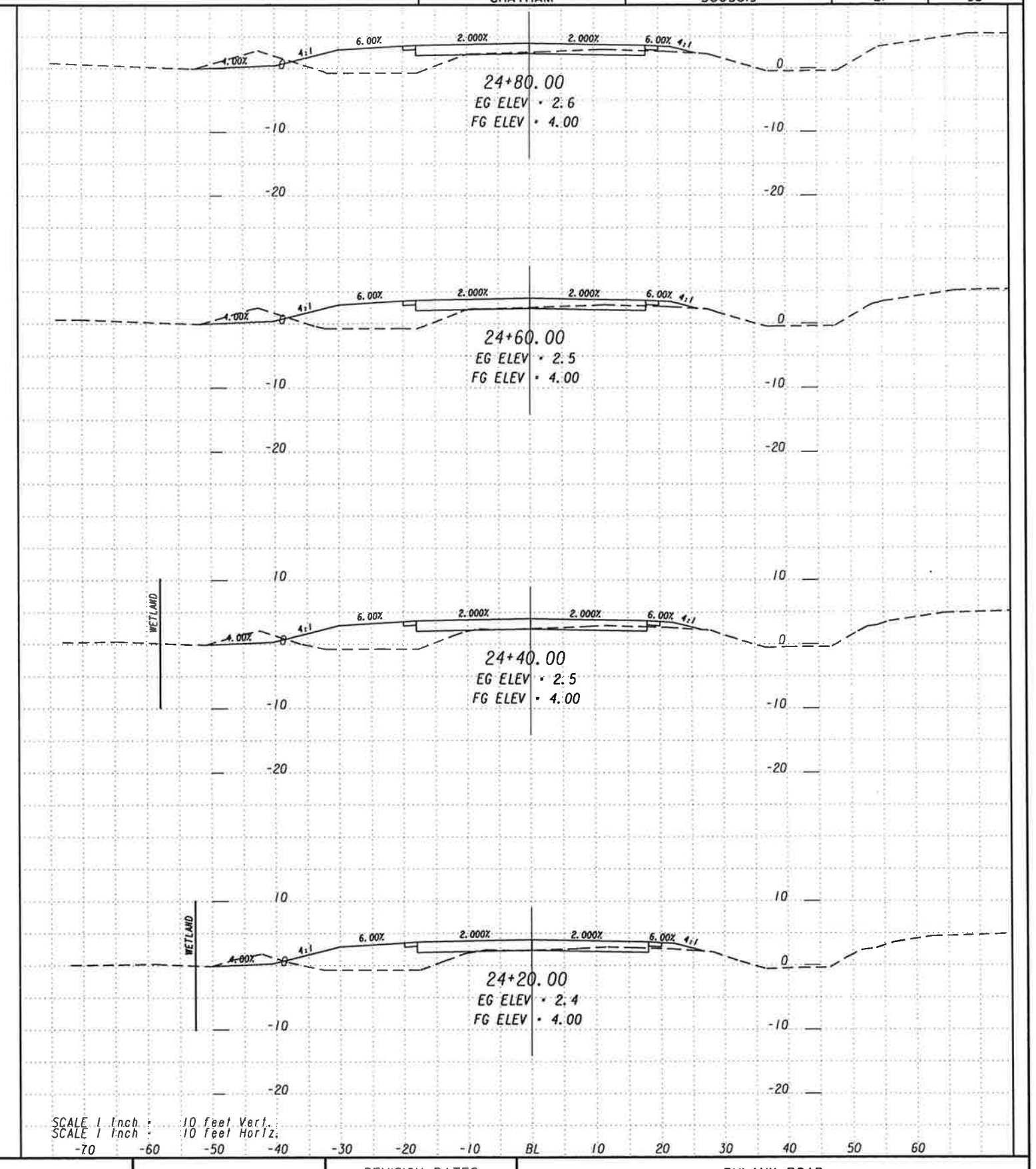
DULANY ROAD

EARTHWORK CROSS SECTIONS
DULANY ROAD

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	23-02	

5/1/2006 CONSDR





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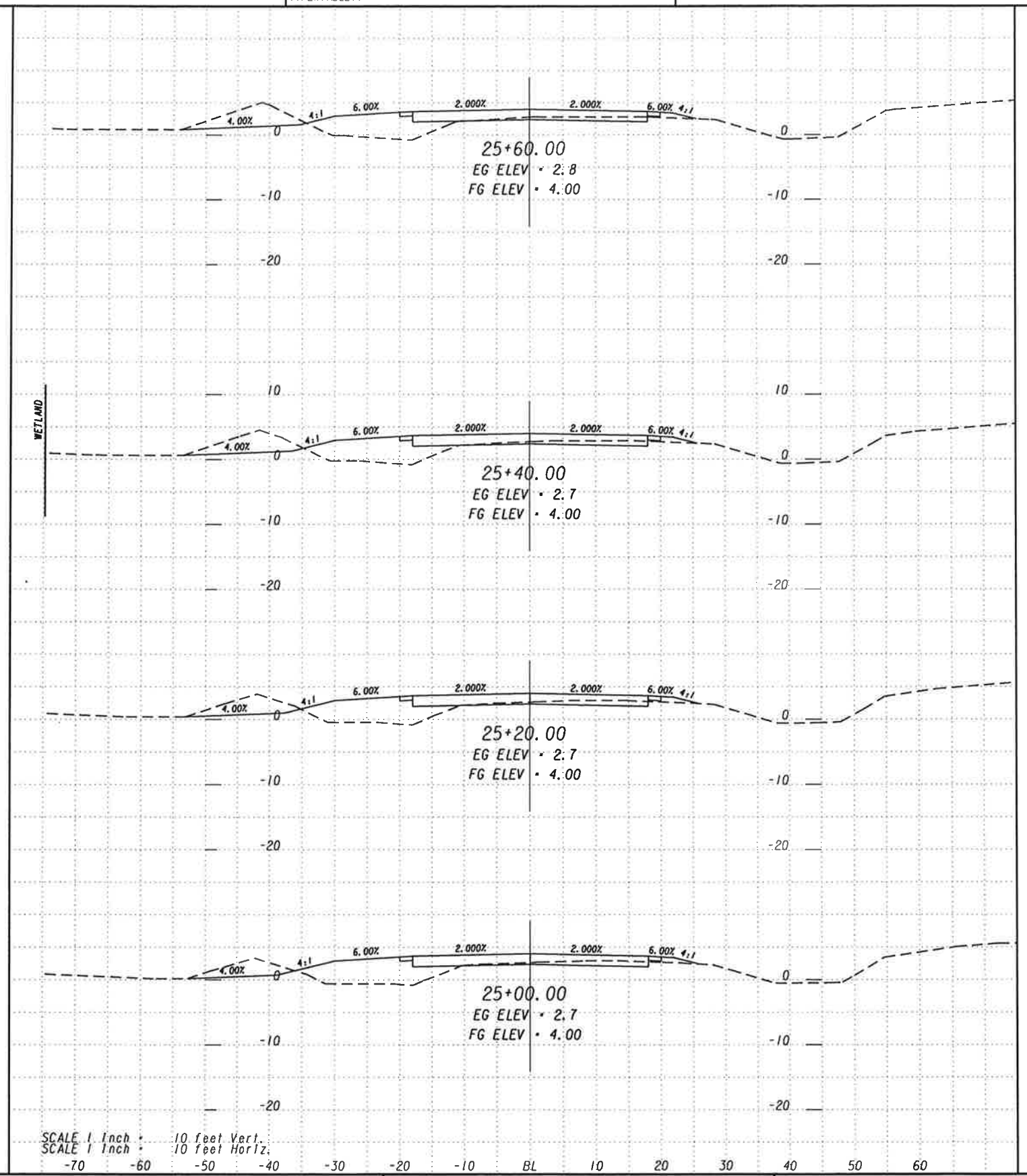
REVISION DATES

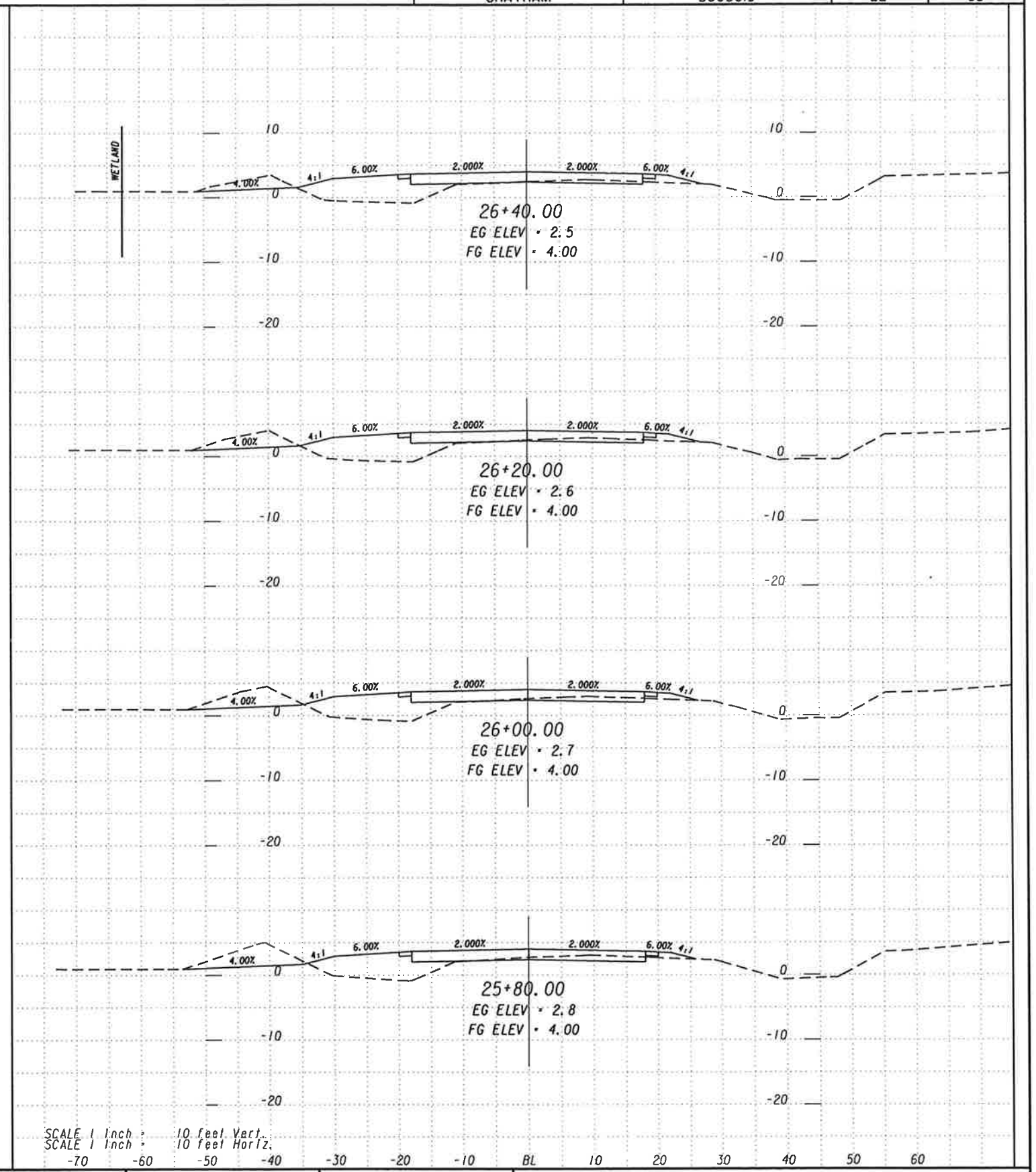
DULANY ROAD

EARTHWORK CROSS SECTIONS
DULANY ROAD

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	23-03	

3/7/2006 CONSDR





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REVISION DATES

DULANY ROAD

EARTHWORK CROSS SECTIONS
DULANY ROAD

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	23-04	

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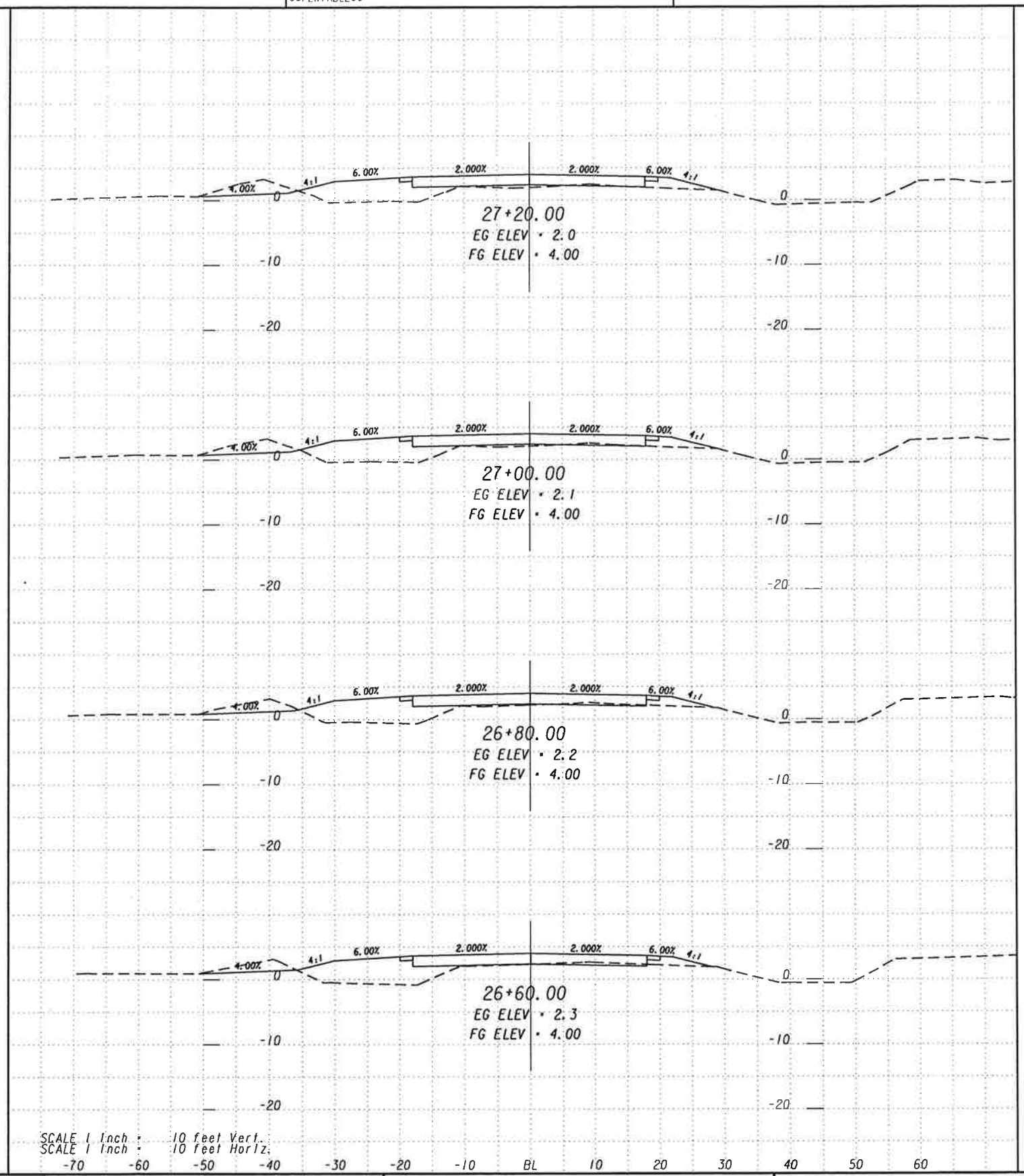

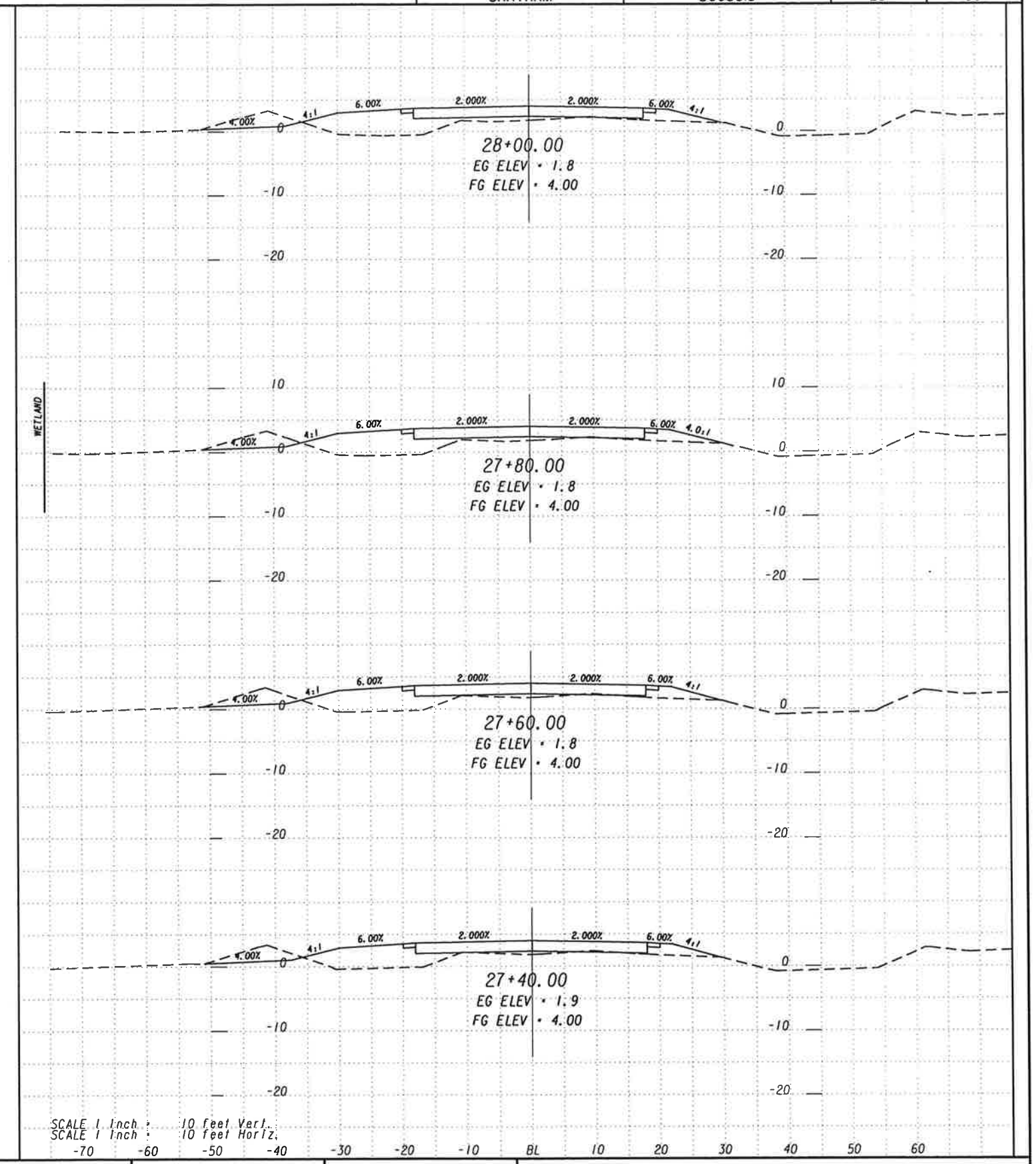

REVISION DATES

DULANY ROAD

EARTHWORK CROSS SECTIONS
DULANY ROAD

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	23-05	

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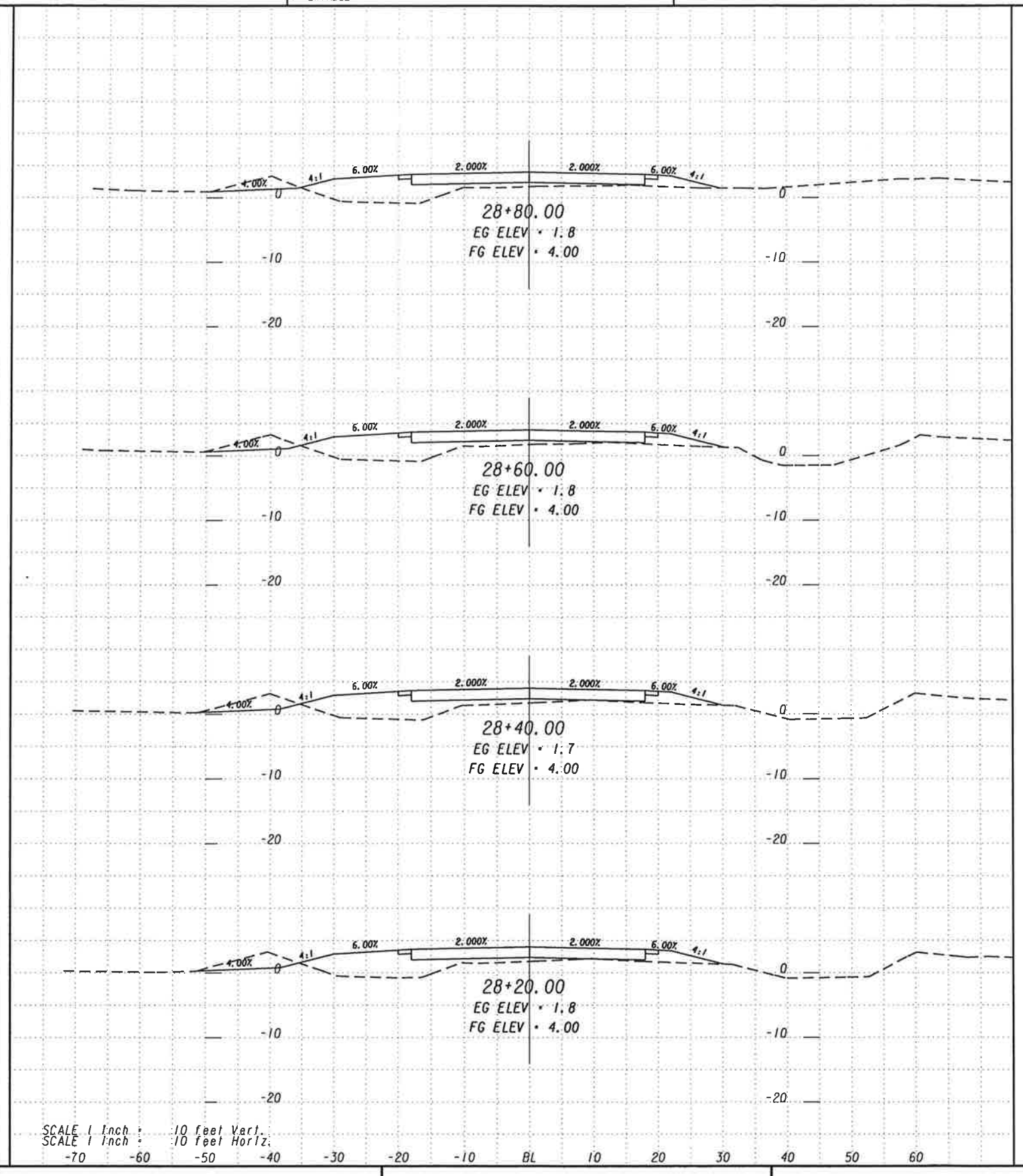

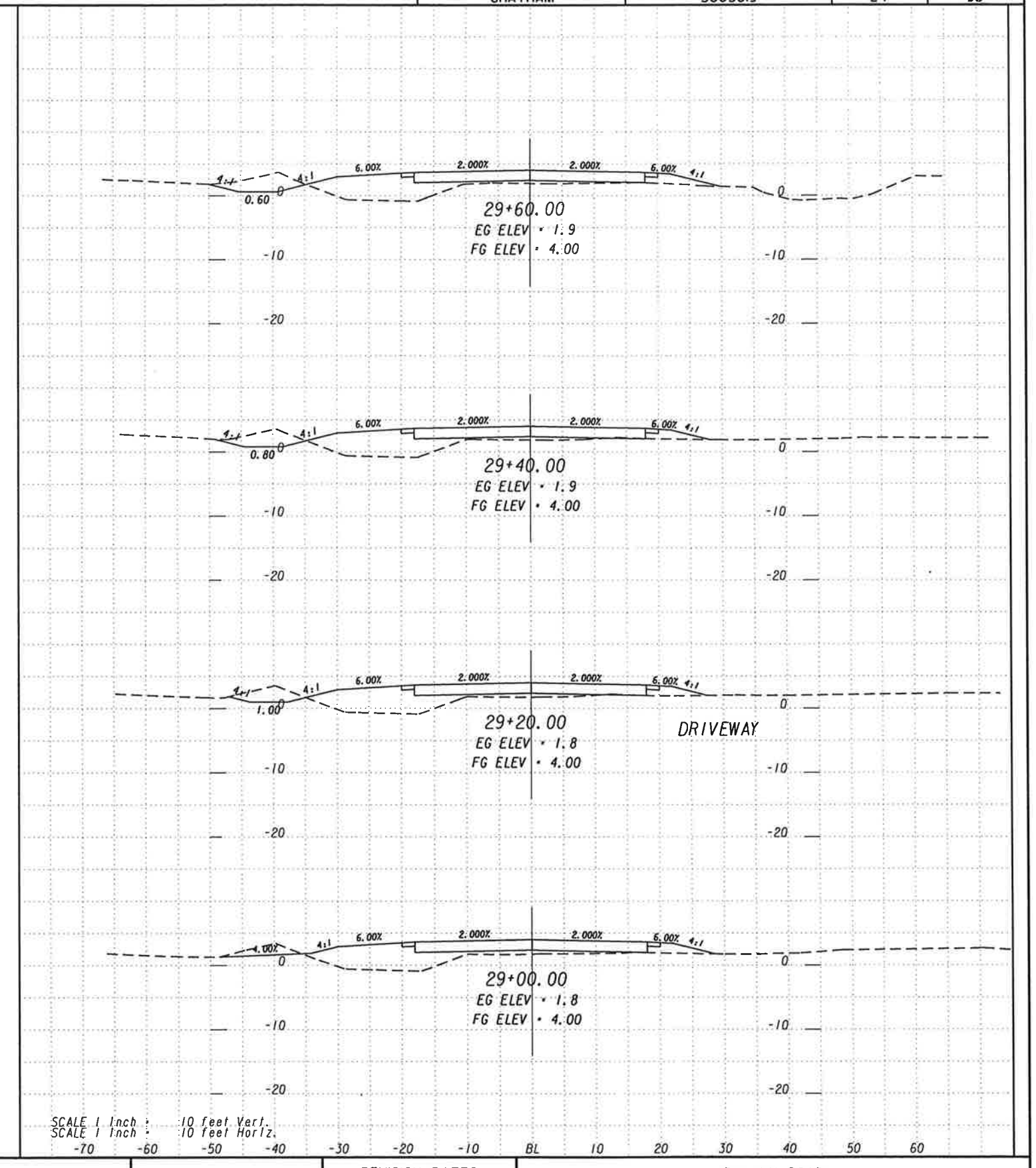

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REVISION DATES

DULANY ROAD

EARTHWORK CROSS SECTIONS
DULANY ROAD

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	23-06	

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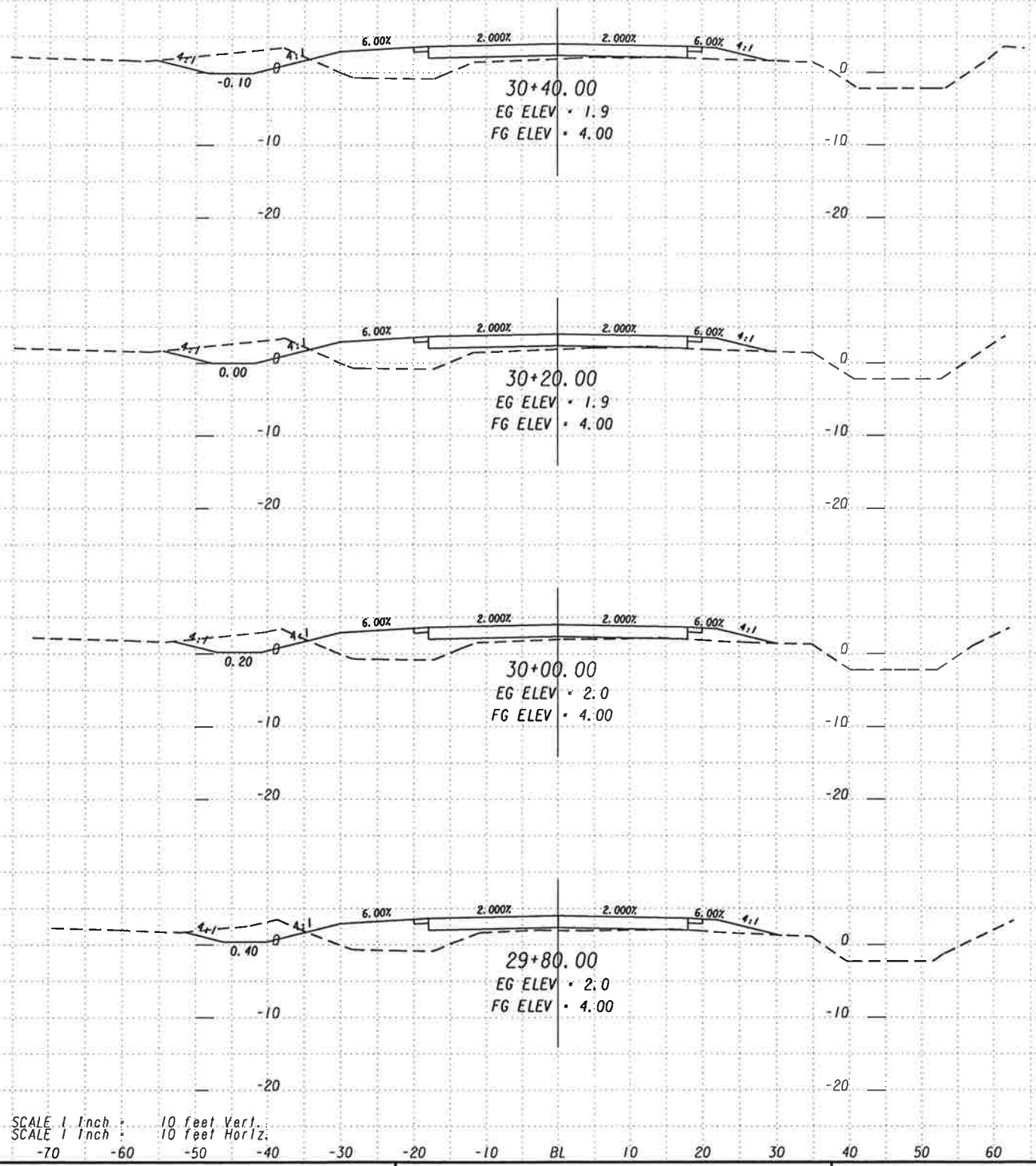

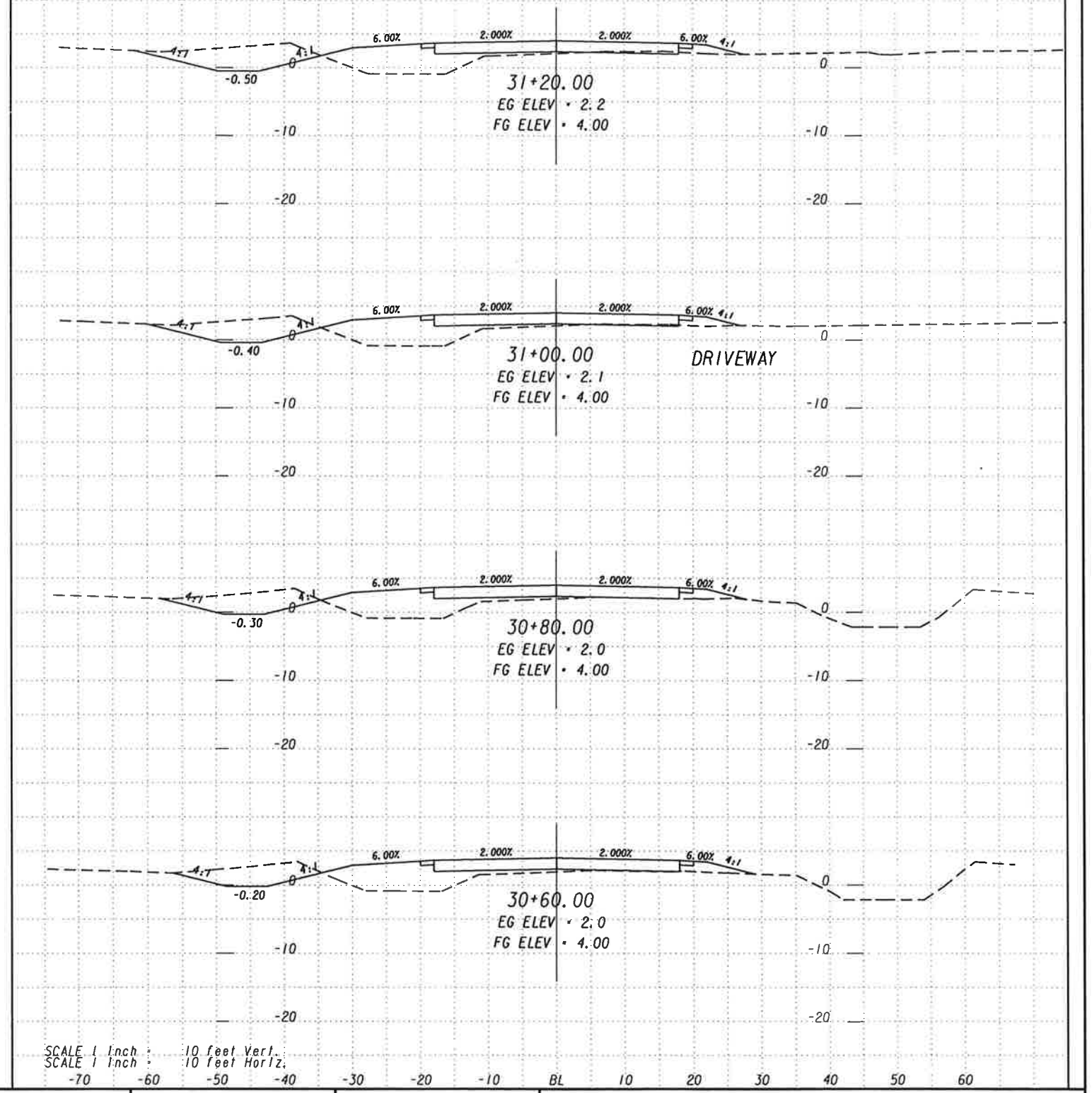

REVISION DATES

DULANY ROAD

EARTHWORK CROSS SECTIONS
DULANY ROAD

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	23-07	

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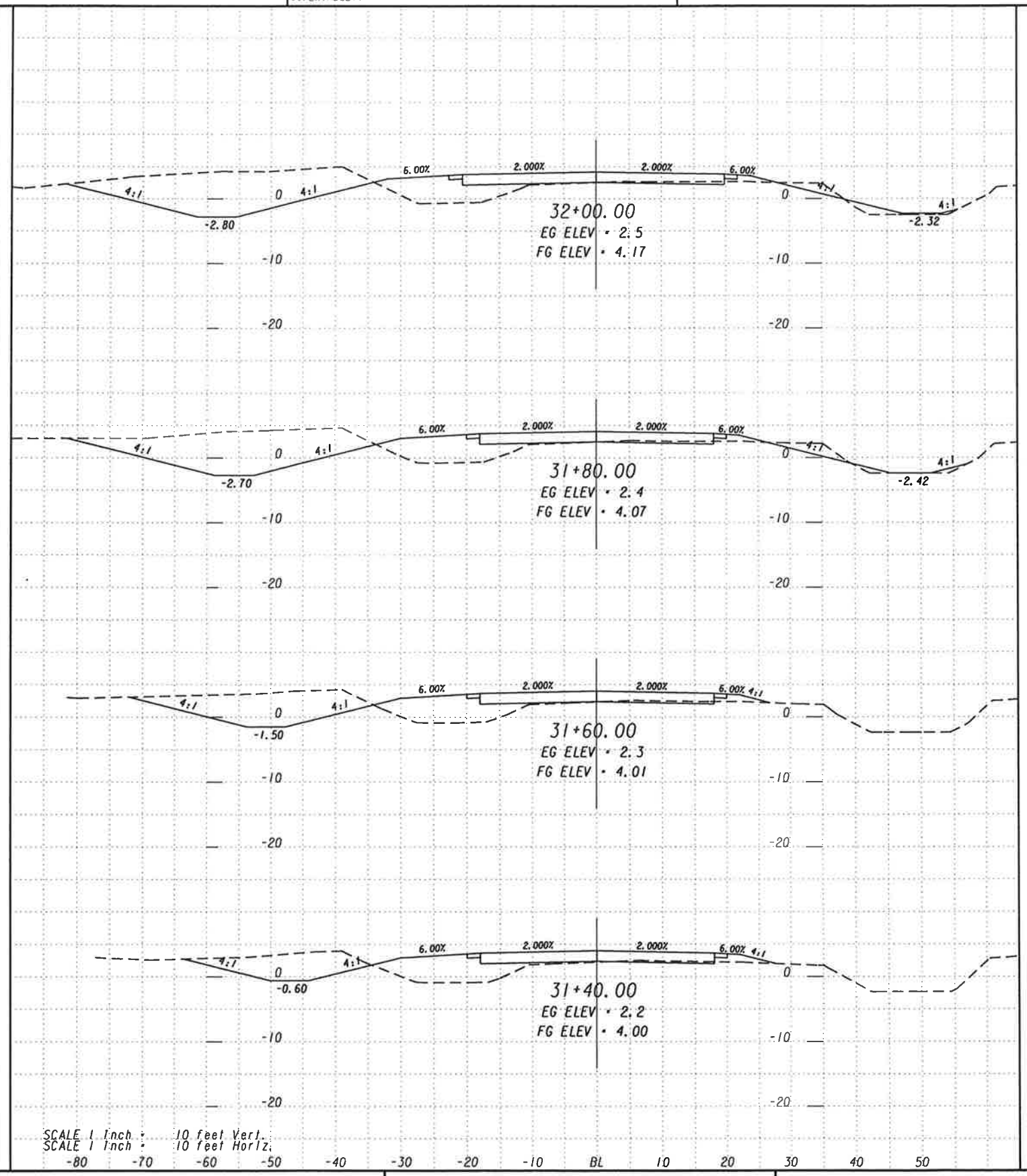
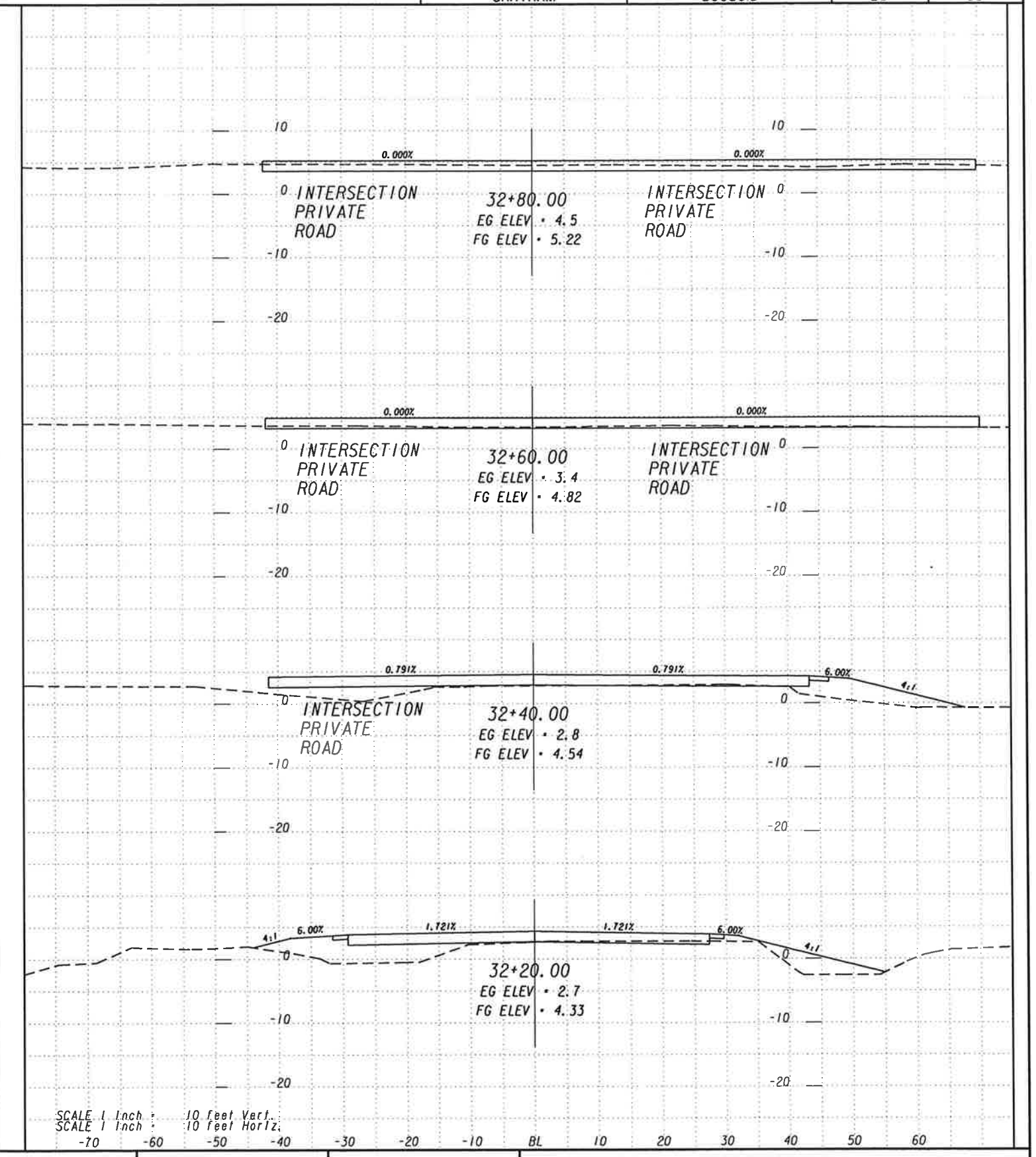
CONSOR





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REVISION DATES

DULANY ROAD

EARTHWORK CROSS SECTIONS
DULANY ROAD

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	23-08	

5/1/2008
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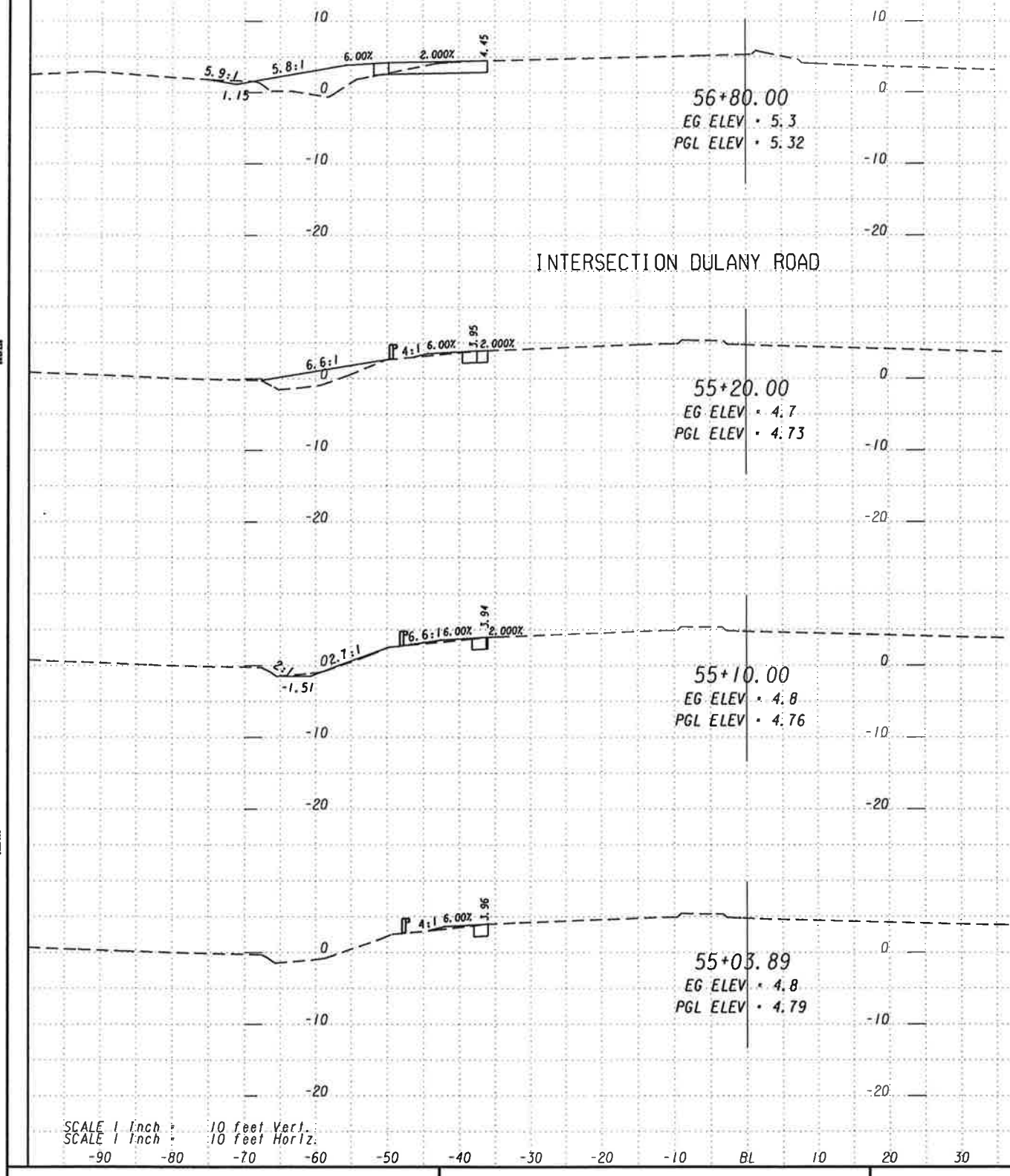

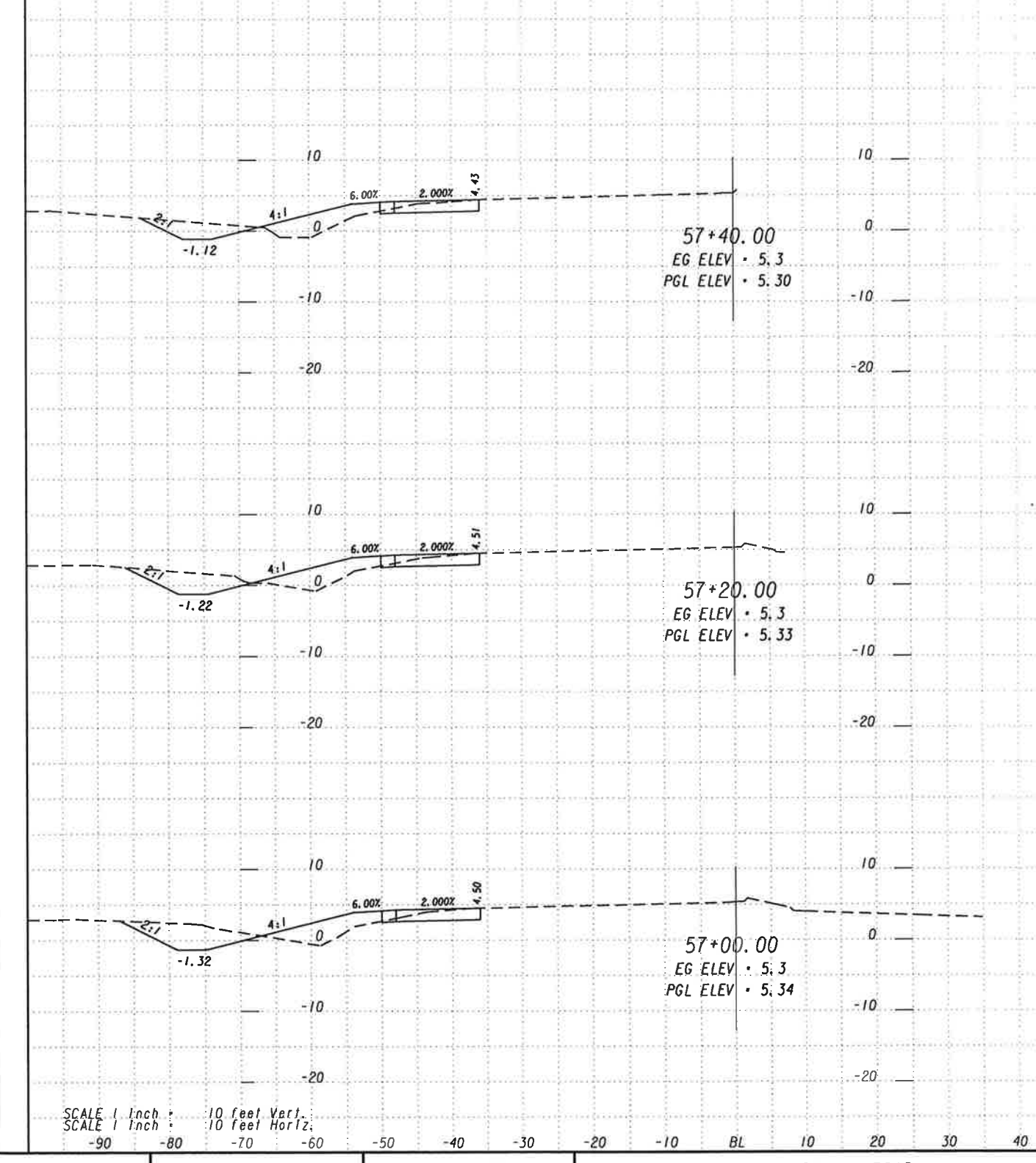

REVISION DATES

DULANY ROAD

EARTHWORK CROSS SECTIONS
PRESIDENT STREET

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	23-09	

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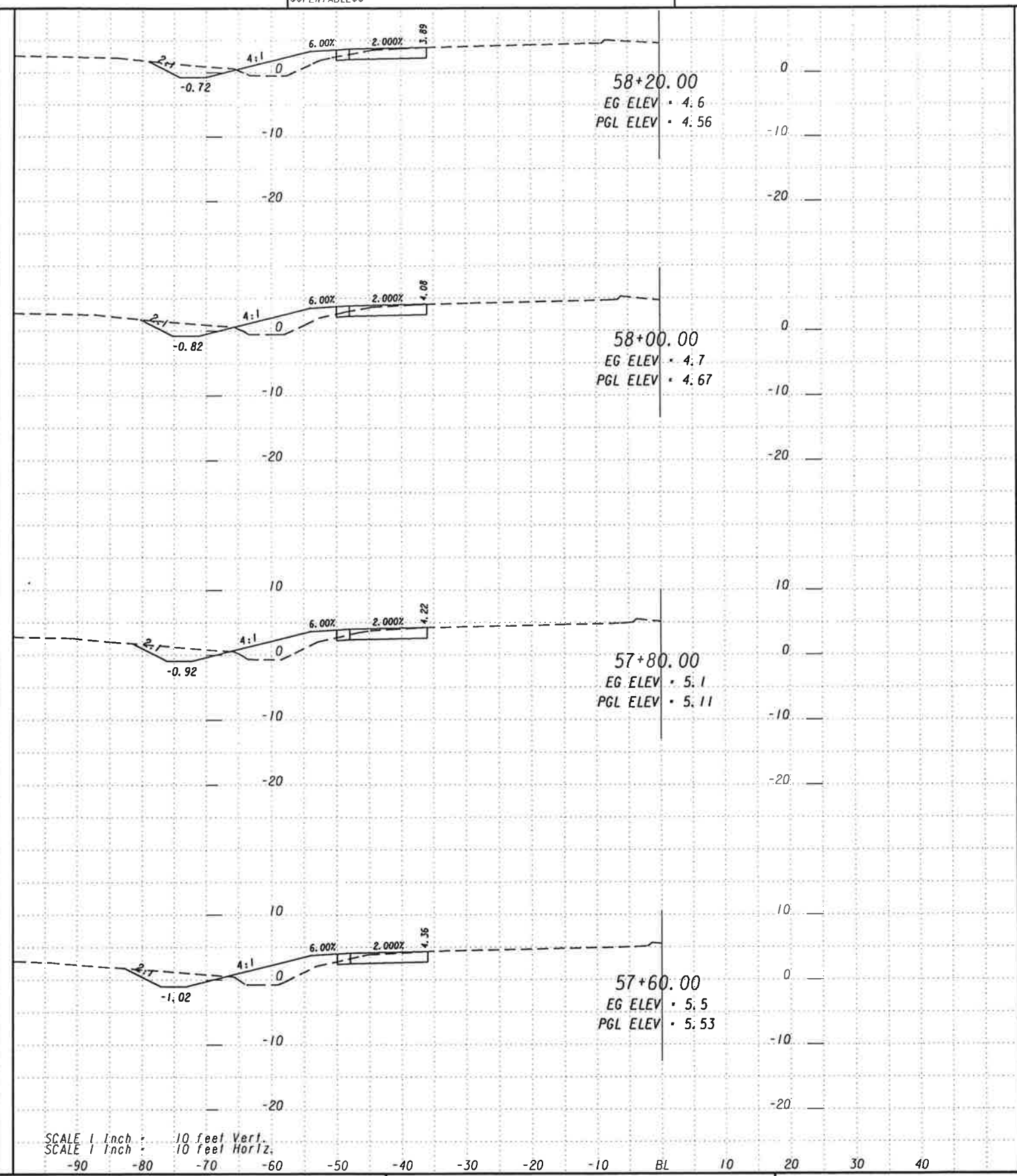

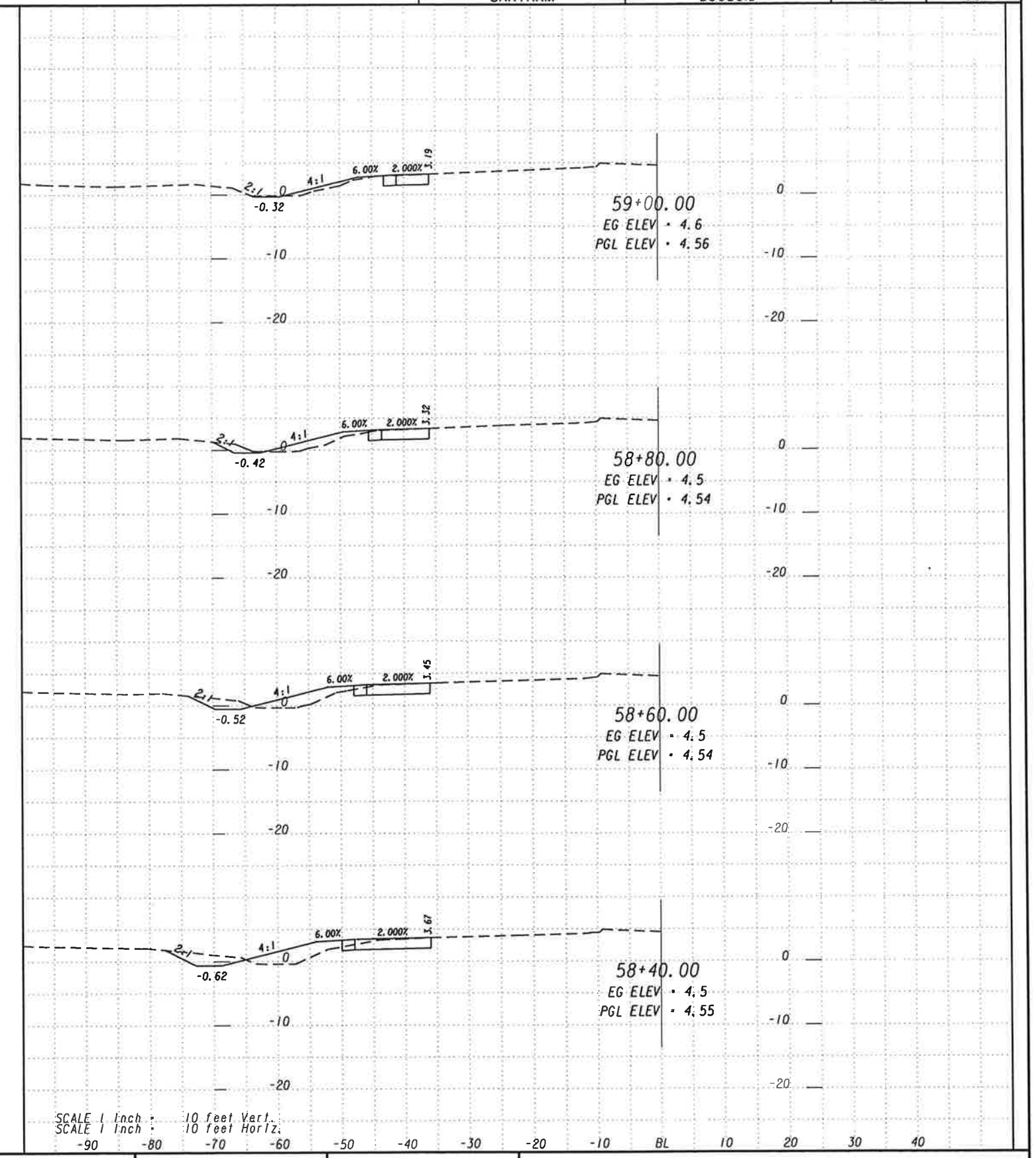

REVISION DATES

DULANY ROAD

EARTHWORK CROSS SECTIONS
PRESIDENT STREET

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	23-10	

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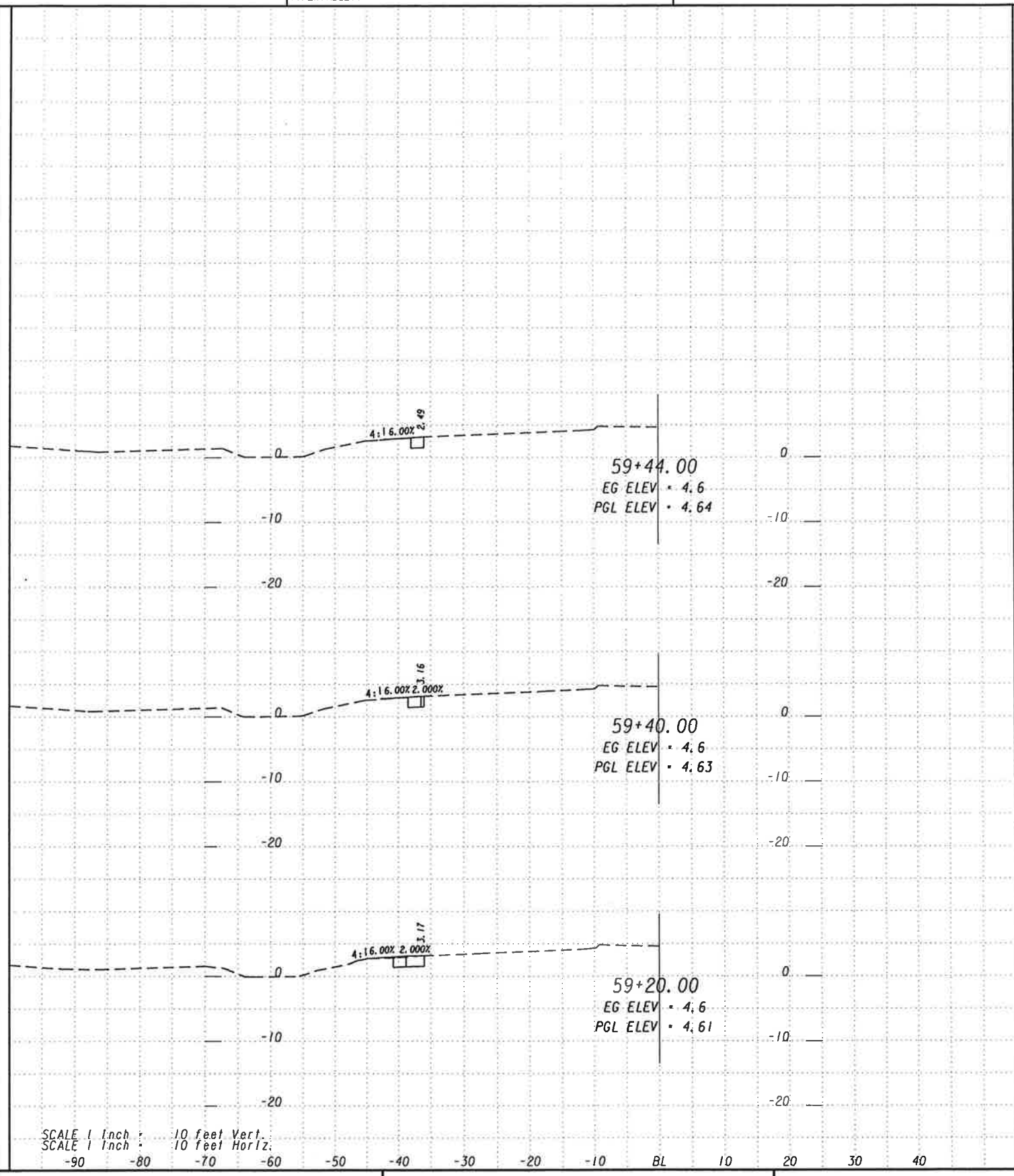
3/7/2008 CONSOR



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REVISION DATES

DULANY ROAD

EARTHWORK CROSS SECTIONS
PRESIDENT STREET

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	23-11	

3/1/2008 DANDER

EXISTING OVERHEAD	OVERHEAD TO BE REMOVED	PROPOSED OVERHEAD	TYPE OF UTILITY
E---E---E	E---E---E	E	ELECTRIC
E-T---E-T	E-T---E-T	E-T	ELECTRIC/TELECOMMUNICATIONS
E-TV---E-TV	E-TV---E-TV	E-TV	ELECTRIC/CABLE TV
E-TC---E-TC	E-TC---E-TC	E-TC	ELECTRIC/TRAFFIC CONTROL
E-T-TV	E-T-TV	E-T-TV	ELECTRIC/TELECOMMUNICATIONS/CABLE TV
E-T-TV-TC	E-T-TV-TC	E-T-TV-TC	ELECTRIC/TELECOMMUNICATIONS/CABLE TV/TRAFFIC CONTROL
E-TV-TC	E-TV-TC	E-TV-TC	ELECTRIC/CABLE TV/TRAFFIC CONTROL
E-T-TC	E-T-TC	E-T-TC	ELECTRIC/TELECOMMUNICATIONS/TRAFFIC CONTROL
GW	GW	GW	GUY WIRE
T	T	T	TELECOMMUNICATIONS
T-TC	T-TC	T-TC	TELECOMMUNICATIONS/TRAFFIC CONTROL
T-TV-TC	T-TV-TC	T-TV-TC	TELECOMMUNICATIONS/CABLE TV/TRAFFIC CONTROL
T-TV	T-TV	T-TV	TELECOMUNICATIONS/CABLE TV
TV	TV	TV	CABLE TV
TV-TC	TV-TC	TV-TC	CABLE TV/TRAFFIC CONTROL
TC	TC	TC	TRAFFIC CONTROL

EXISTING UNDERGROUND	UNDERGROUND TO BE REMOVED	PROPOSED UNDERGROUND	TYPE OF UTILITY
E	E	E	ELECTRIC (QL-D)
E(C)	E(C)		ELECTRIC (QL-C)
E(B)	E(B)		ELECTRIC (QL-B)
T	T	T	TELECOMMUNICATIONS (QL-D)
T(C)	T(C)		TELECOMMUNICATIONS (QL-C)
T(B)	T(B)		TELECOMMUNICATIONS (QL-B)
TV	TV	TV	CABLE TV (QL-D)
TV(C)	TV(C)		CABLE TV (QL-C)
TV(B)	TV(B)		CABLE TV (QL-B)
W	W	W	WATER (QL-D)
W(C)	W(C)		WATER (QL-C)
W(B)	W(B)		WATER (QL-B)
**W	**W	**W	WATER FOR LABELED PIPE SIZES (QL-D)
**W(C)	**W(C)		WATER FOR LABELED PIPE SIZES (QL-C)
**W(B)	**W(B)		WATER FOR LABELED PIPE SIZES (QL-B)
NW	NW	NW	NON-POTABLE WATER (QL-D)
NW(C)	NW(C)		NON-POTABLE WATER (QL-C)
NW(B)	NW(B)		NON-POTABLE WATER (QL-B)
**NW	**NW	**NW	NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-D)
**NW(C)	**NW(C)		NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-C)
**NW(B)	**NW(B)		NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-B)
STM	STM	STM	STEAM (QL-D)
STM(C)	STM(C)		STEAM (QL-C)
STM(B)	STM(B)		STEAM (QL-B)
**STM	**STM	**STM	STEAM FOR LABELED PIPE SIZES (QL-D)
**STM(C)	**STM(C)		STEAM FOR LABELED PIPE SIZES (QL-C)
**STM(B)	**STM(B)		STEAM FOR LABELED PIPE SIZES (QL-B)
SS	SS	SS	SANITARY SEWER WITH FLOW DIRECTION (QL-D)
SS(C)	SS(C)		SANITARY SEWER WITH FLOW DIRECTION (QL-C)
SS(B)	SS(B)		SANITARY SEWER WITH FLOW DIRECTION (QL-B)
Σ**SS	Σ**SS	Σ**SS	SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-D)
Σ**SS(C)	Σ**SS(C)		SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-C)
Σ**SS(B)	Σ**SS(B)		SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-B)
SFM	SFM	SFM	SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-D)
SFM(C)	SFM(C)		SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-C)
SFM(B)	SFM(B)		SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-B)
G	G	G	GAS (QL-D)
G(C)	G(C)		GAS (QL-C)
G(B)	G(B)		GAS (QL-B)
**G	**G	**G	GAS FOR LABELED PIPE SIZES (QL-D)
**G(C)	**G(C)		GAS FOR LABELED PIPE SIZES (QL-C)
**G(B)	**G(B)		GAS FOR LABELED PIPE SIZES (QL-B)
P	P	P	PETROLEUM (QL-D)
P(C)	P(C)		PETROLEUM (QL-C)
P(B)	P(B)		PETROLEUM (QL-B)
**P	**P	**P	PETROLEUM FOR LABELED PIPE SIZES (QL-D)
**P(C)	**P(C)		PETROLEUM FOR LABELED PIPE SIZES (QL-C)
**P(B)	**P(B)		PETROLEUM FOR LABELED PIPE SIZES (QL-B)
TC	TC	TC	TRAFFIC CONTROL (QL-D)
TC(C)	TC(C)		TRAFFIC CONTROL (QL-C)
TC(B)	TC(B)		TRAFFIC CONTROL (QL-B)
UNK(B)	UNK(B)		UNKNOWN UTILITY FOUND IN SUE INVESTIGATION (QL-B)

UTILITY LEGEND

UTILITY CELLS

EXISTING	PROPOSED	TEMPORARY	
E	E	E	ELECTRIC MANHOLE
H	H	H	HAND HOLE
E	E	E	TRANSFORMER
E	E	E	ELECTRIC METER
			UTILITY POLE/GUY POLE
			LIGHT POLE
			GUY ANCHOR
E	E	E	ELECTRIC BOX
M	M	M	MARKER
T	T	T	TELECOMMUNICATIONS MANHOLE
T	T	T	TELECOMMUNICATIONS PEDESTAL
X	X	X	SPLICE BOX
SLC	SLC	SLC	SUBCRIBER LOOP CARRIER (aka 'SLICK')
			CABINET
			PHONE BOOTH
			CABLE TV PEDESTAL
TV	TV	TV	CABLE TV MANHOLE
W	W	W	WATER VALVE
W	W	W	WATER METER
W	W	W	WATER MANHOLE
			FIRE HYDRANT ASSEMBLY (INCLUDES ASSOCIATED VALVE)
BFP	BFP	BFP	BACKFLOW PREVENTER
PIV	PIV	PIV	PRESSURE INDICATOR VALVE
ARV	ARV	ARV	AIR RELEASE VALVE

EXISTING	PROPOSED	TEMPORARY	
W	W	W	WELL
W	W	W	WATER VAULT
W	W	W	WATER VALVE MARKER
			STAND PIPE
			CLEANOUT
SS	SS	SS	SANITARY SEWER MANHOLE
ARV	ARV	ARV	AIR RELEASE VALVE
GT	GT	GT	GREASE TRAP
S	S	S	SANITARY SEWER FORCE MAIN VALVE
			VENT
G	G	G	GAS VALVE
G	G	G	GAS METER
G	G	G	GAS MANHOLE
GPR	GPR	GPR	GAS PRESSURE REGULATOR
G	G	G	GAS VAULT
GTS	GTS	GTS	GAS TEST STATION
P	P	P	PETROLEUM VALVE

MISC.

	LIMITS OF OVERHEAD AND SUBSURFACE UTILITY INVESTIGATION
TH	TEST HOLE (QL-A ONLY)
EOI	END OF INFORMATION
	QUALITY LEVEL (QL) DELINEATION
123	POLE ID
A01	SANITARY SEWER MANHOLE (SSMH) ID
	END OF UTILITY

MANHOLE = LENGTH x WIDTH x HEIGHT

PR	TELEPHONE PAIR SIZE
UNK	UNKNOWN SIZE/TYPE
MTD	MULTIPLE TILE DUCT
MCD	MULTIPLE CONCRETE DUCT
DIP	DUCTILE IRON PIPE
TRD	TRANSITE (ASBESTOS) DUCT
FOC	FIBER OPTIC CABLE
CIP	CAST IRON PIPE
PVC	POLY VINYL CHLORIDE
STR	FIBER STRAND SIZE
TCP	TERRA COTTA PIPE
ACP	ASBESTOS CONCRETE PIPE

UTILITY LINE 1
UTILITY LINE 2
UTILITY LINE 3

TELEPHONE PAIR SIZE TABLE

TELEPHONE PAIR SIZE	TELEPHONE CABLE DIAMETER
5 - 100	0.50 TO 2.00 IN
101 - 2400	UP TO 3.50 IN

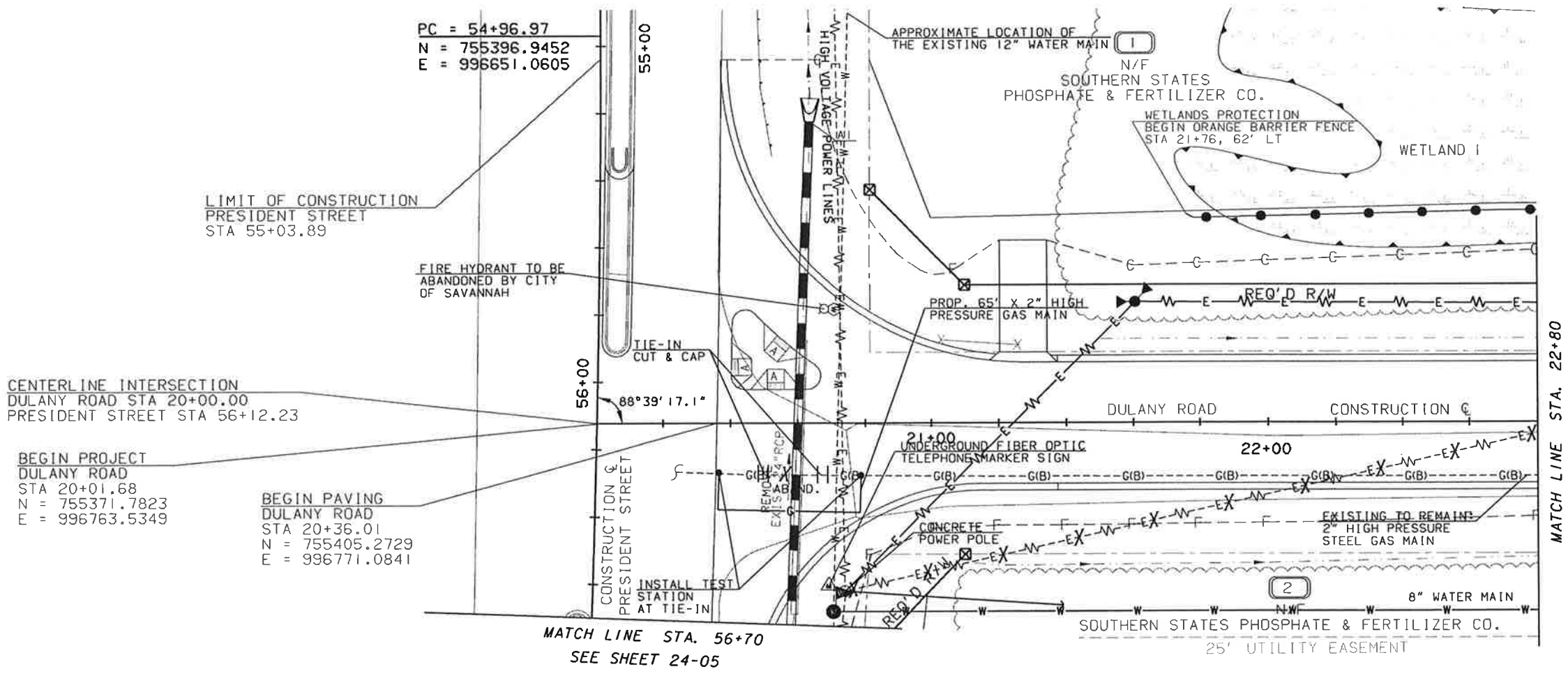
QUALITY LEVELS AND DEFINITIONS

OL-D DEPICTED ACCORDING TO UTILITY RECORD INFORMATION AND IN-FIELD VISUAL INSPECTION. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED.

OL-C EXISTING UTILITY STRUCTURES HAVE BEEN FIELD LOCATED AND SURVEYED TO ASSIST IN DEPICTING THE UTILITIES SHOWN ON RECORDS. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED.

OL-B INFORMATION WAS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROPRIATE HORIZONTAL POSITION OF THE SUBSURFACE UTILITIES. OL-B DATA SHOULD BE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES DEFINED BY THE PROJECT AND REDUCED ONTO PLAN DOCUMENTS.

OL-A OBTAIN PRECISE HORIZONTAL AND VERTICAL POSITION OF THE UTILITY LINE BY EXCAVATING A TEST HOLE. THE TEST HOLE SHALL BE DONE USING VACUUM EXCAVATION OR COMPARABLE NONDESTRUCTIVE EQUIPMENT IN A MANNER AS TO CAUSE NO DAMAGE TO THE UTILITY LINE. AFTER EXCAVATING A TEST HOLE, A FIELD SURVEY SHALL BE PERFORMED TO DETERMINE THE EXACT LOCATION AND POSITION OF THE UTILITY LINE.



NOTE: AT&T HAS NOT RESPONDED TO MULTIPLE REQUESTS FOR EXISTING LOCATIONS & PROPOSED RELOCATIONS.

SCALE IN FEET
0 20 40 80

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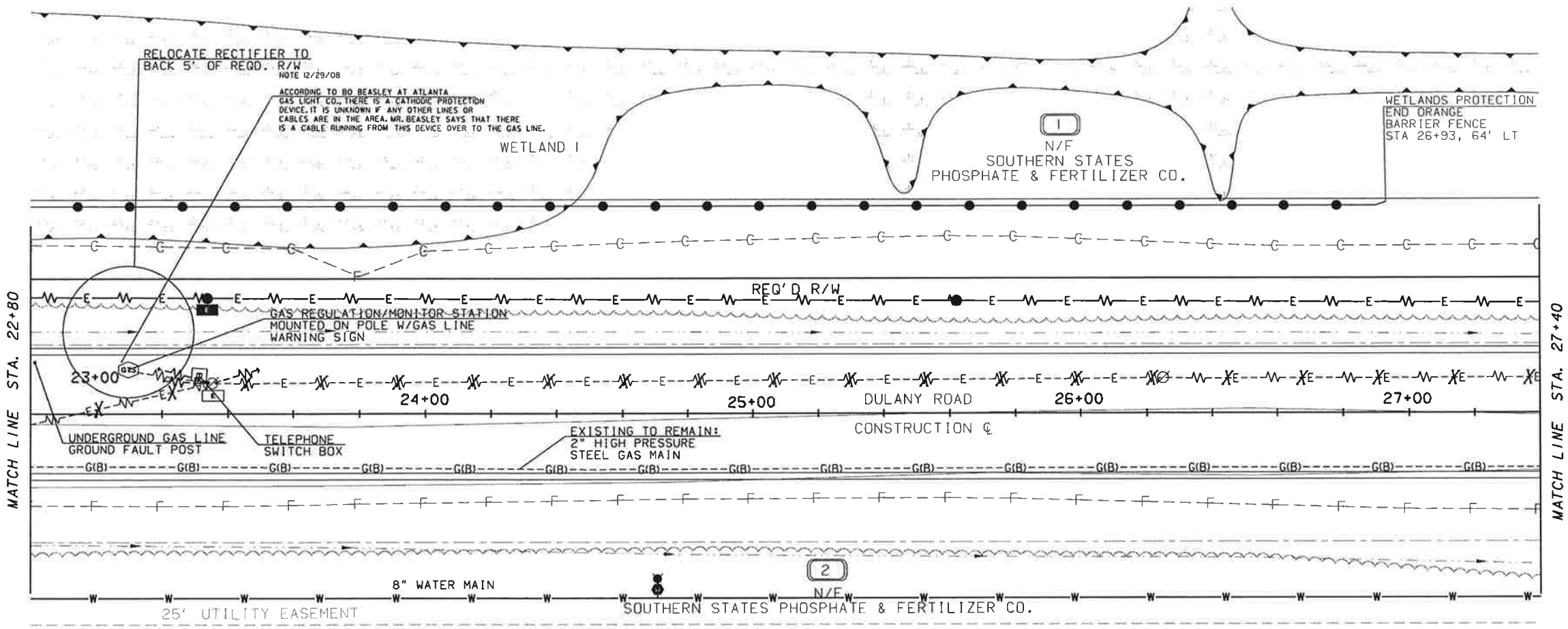
REVISION DATES

DULANY ROAD

UTILITY PLANS

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	24-01	



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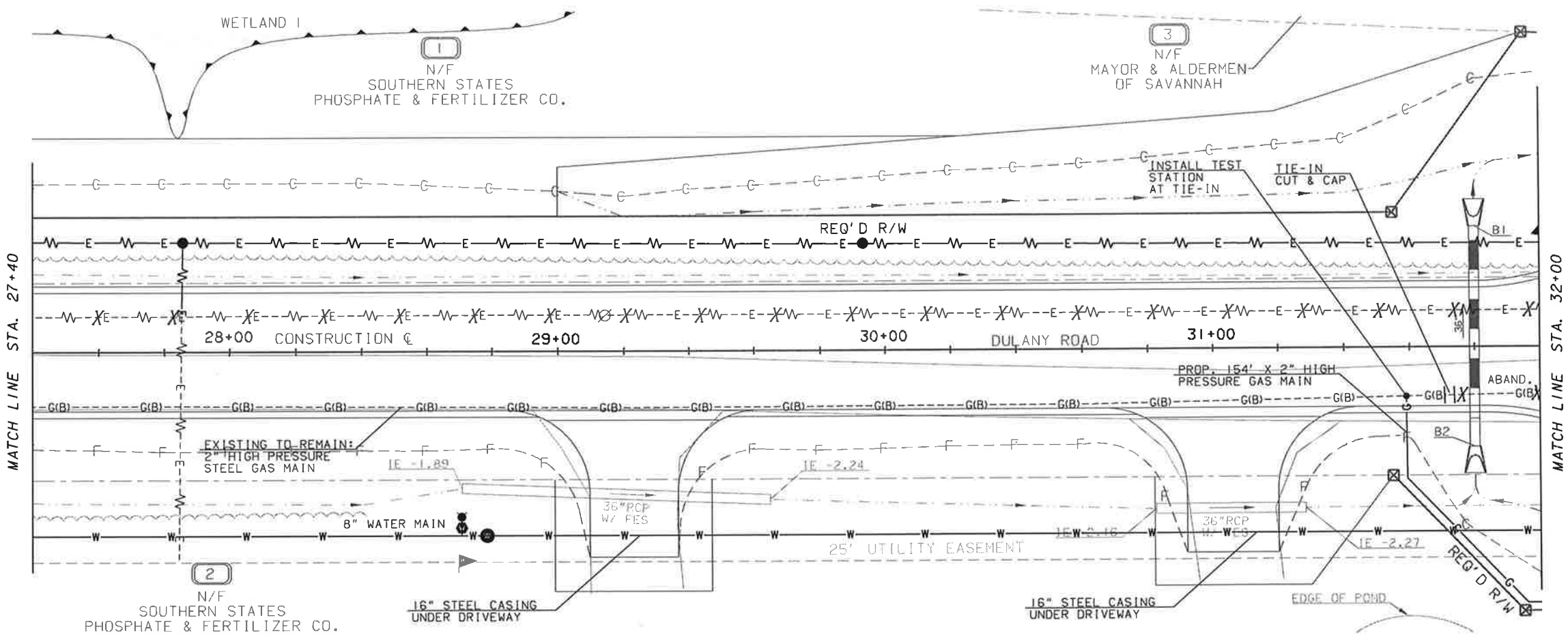
REVISION DATES

DULANY ROAD

UTILITY PLANS

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	24-02	

3/1/2008 CWBDR



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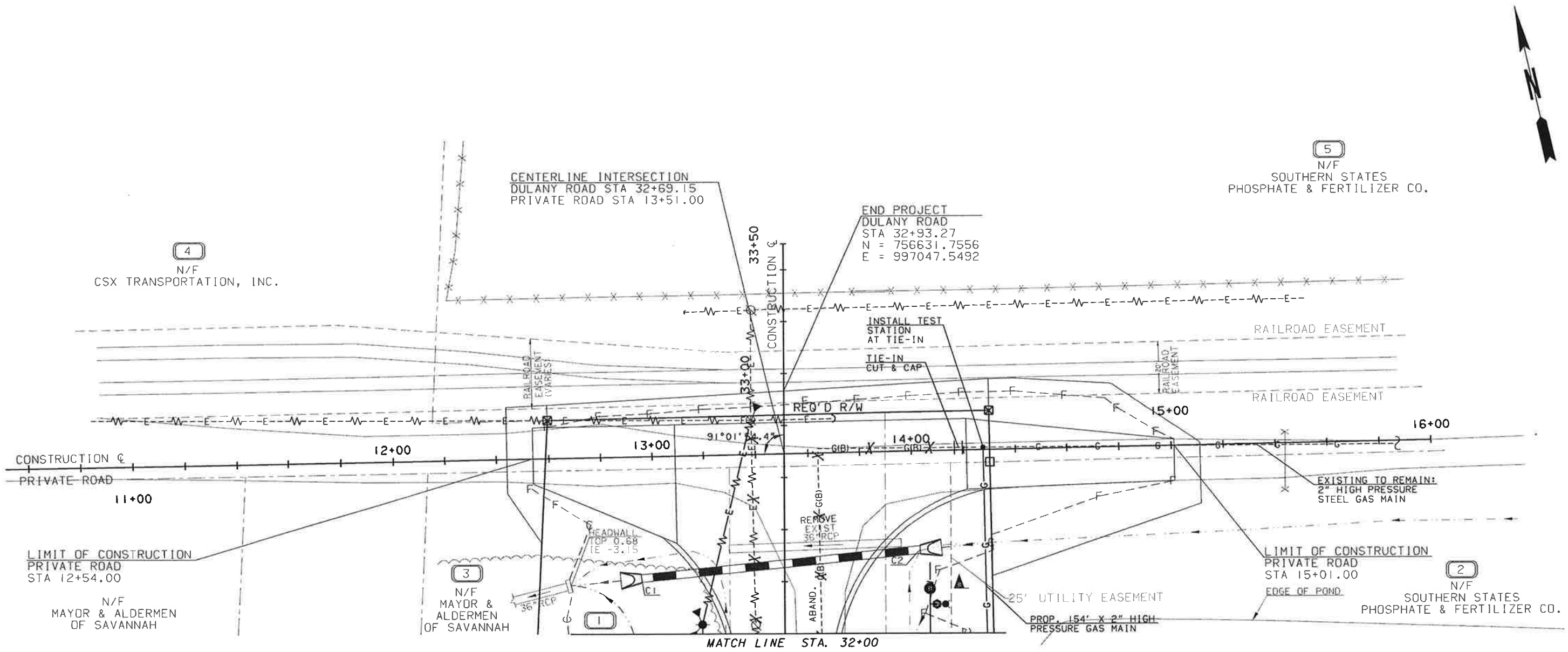
REVISION DATES

DULANY ROAD

UTILITY PLANS

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	24-03	



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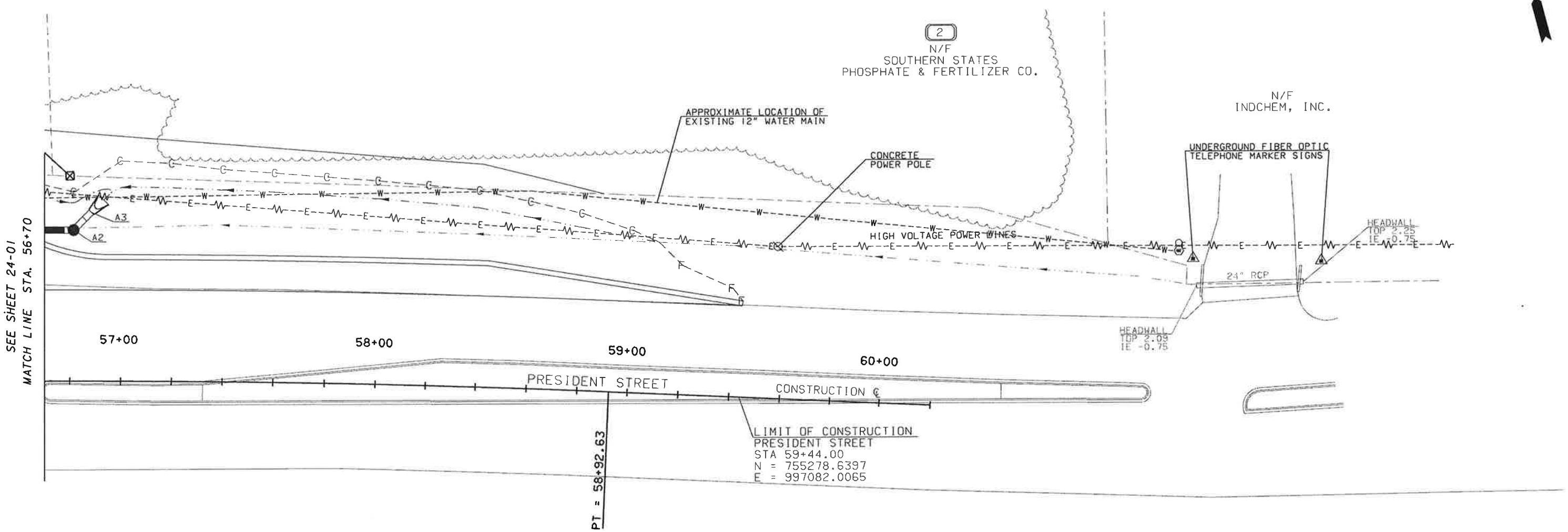
REVISION DATES

DULANY ROAD

UTILITY PLANS

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	24-04	



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SCALE IN FEET
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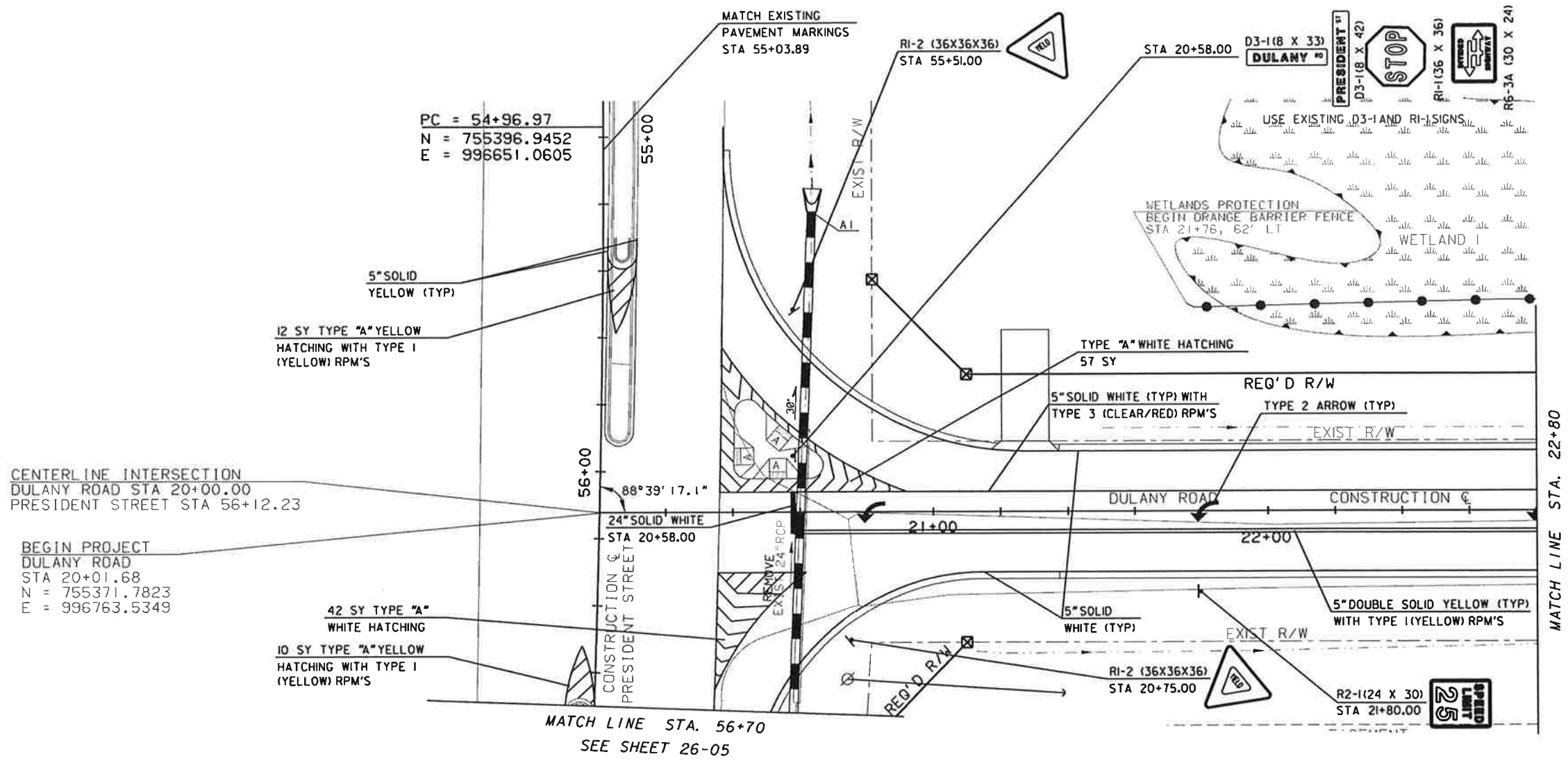
REVISION DATES

DULANY ROAD

UTILITY PLANS

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	24-05	



SCALE IN FEET
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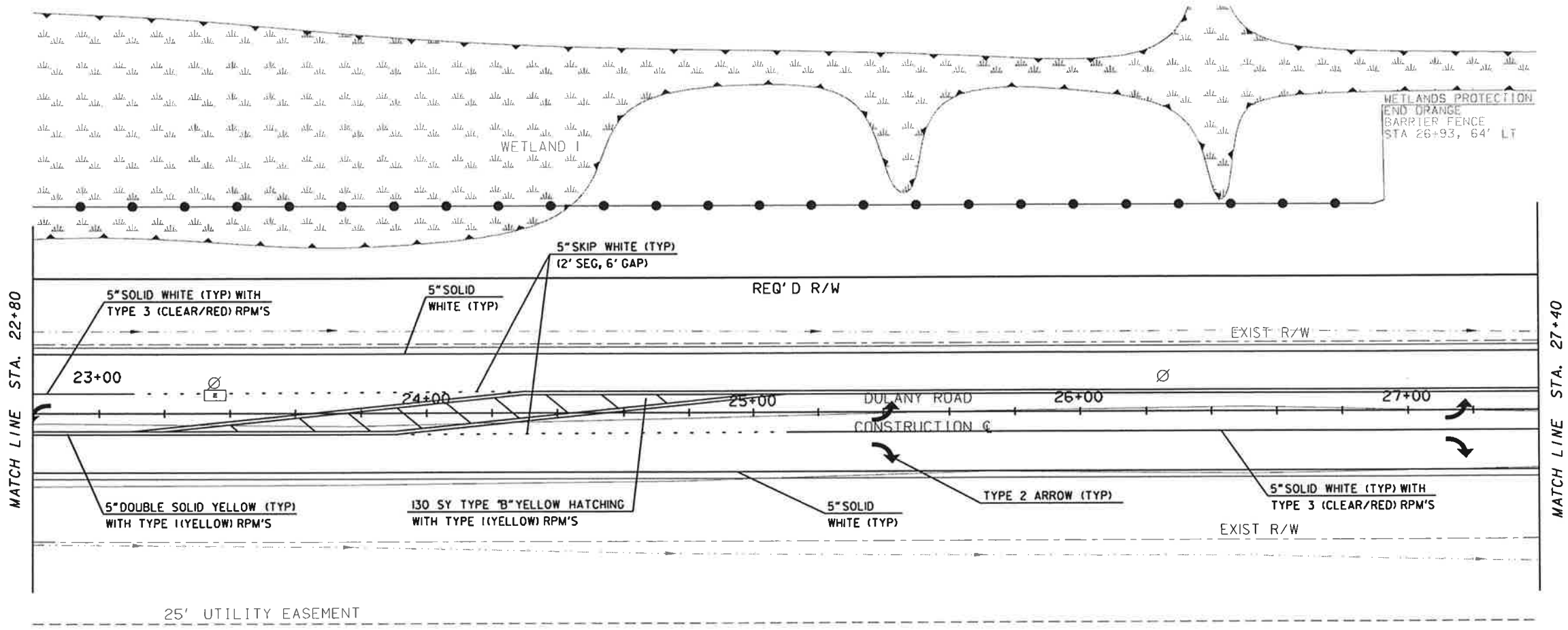
REVISION DATES

DULANY ROAD

SIGNING AND MARKING PLANS

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	26-01	

3/1/2006 CHABER



SCALE IN FEET
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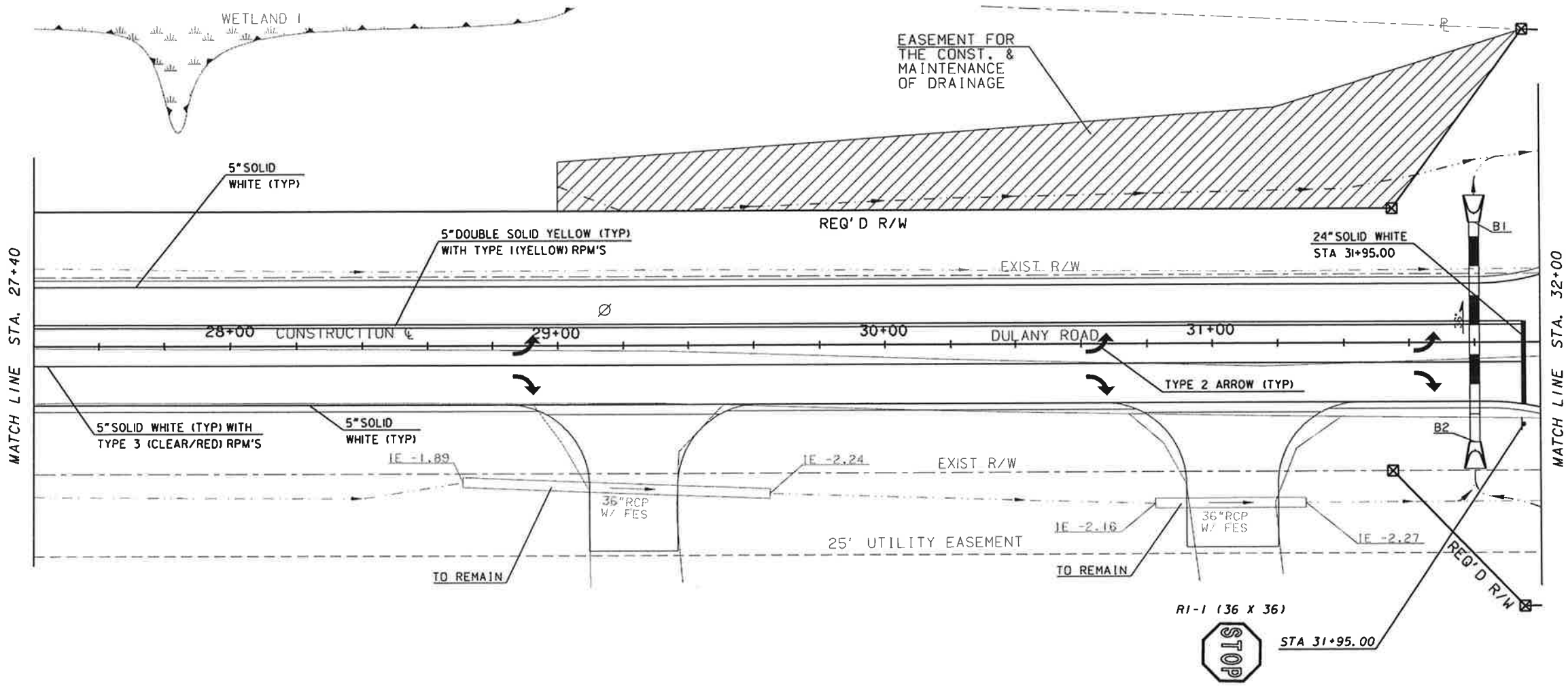
REVISION DATES

DULANY ROAD

SIGNING AND MARKING PLANS

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	26-02	

3/4/2008 CONSOR



SCALE IN FEET
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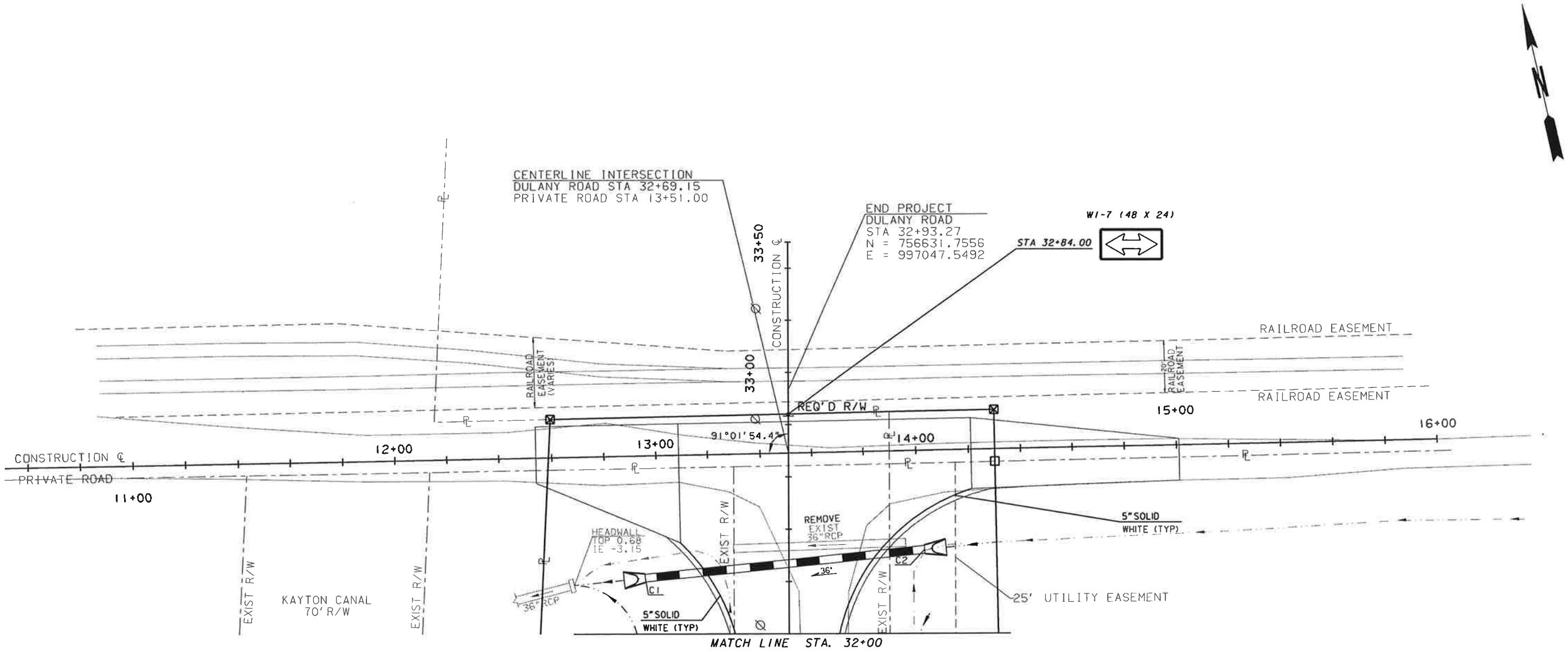
REVISION DATES

DULANY ROAD

SIGNING AND MARKING PLANS

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	26-03	



SCALE IN FEET
0 20 40 80

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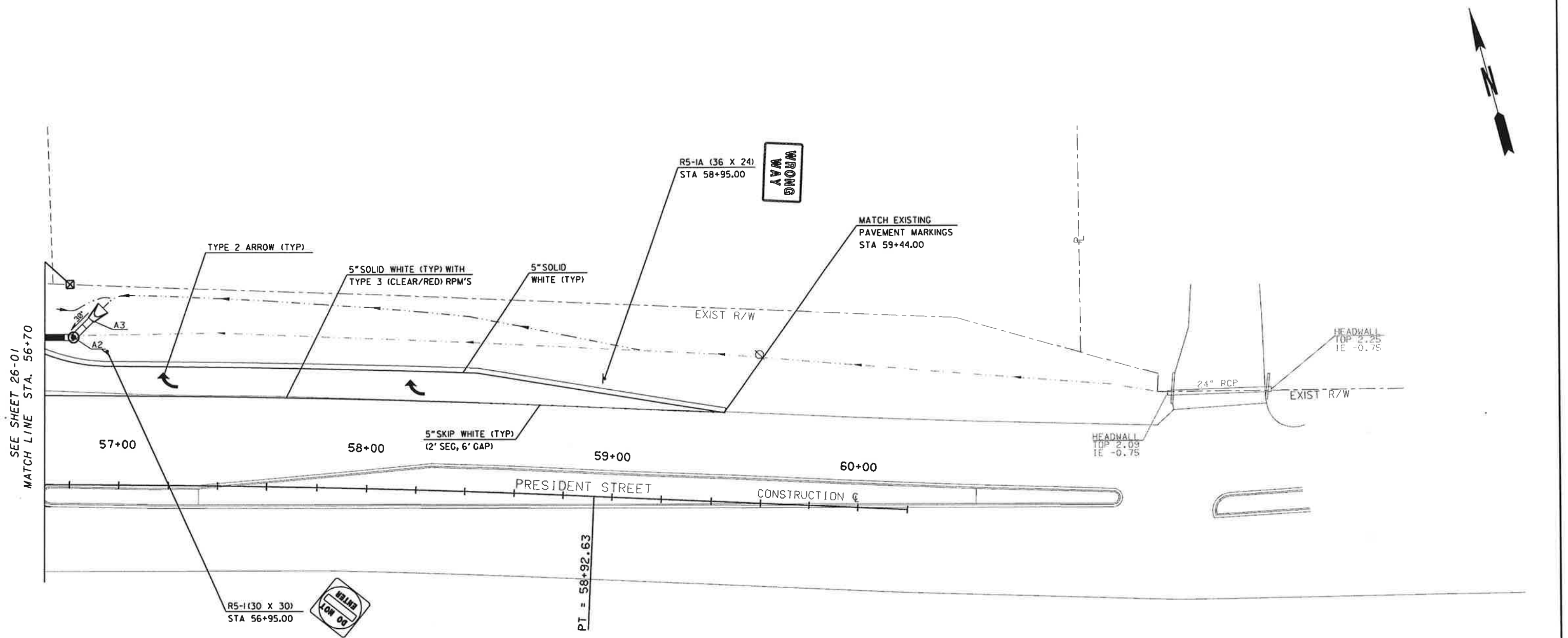
REVISION DATES

DULANY ROAD

SIGNING AND MARKING PLANS

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	26-04	

1/1/2008 CONVERT



SCALE IN FEET
0 20 40 80

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REVISION DATES

DULANY ROAD

SIGNING AND MARKING PLANS

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
RCM	CNB	TMC		AS SHOWN	3003019	26-05	

3/1/2006 CONSOR