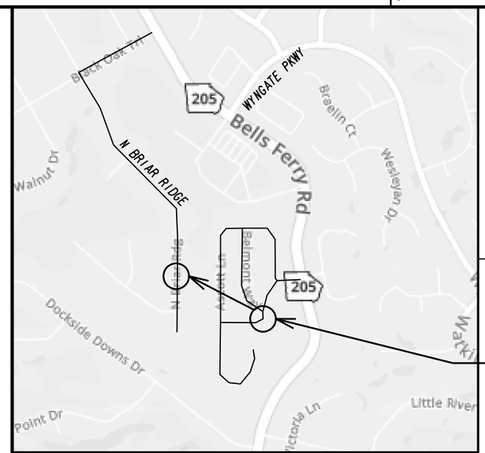
CHEROKEE COUNTY
CHEROKEE COUNTY SPLOST PROGRAM

PLAN AND PROFILE OF PROPOSED

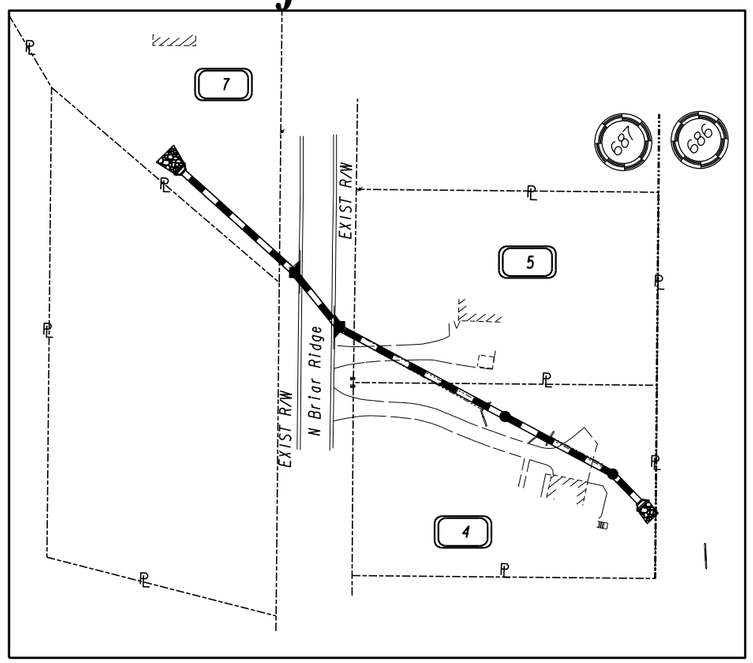
KINGLAND STREET AND NORTH BRIAR RIDGE DRAINAGE IMPROVEMENTS



LOCATION SKETCH

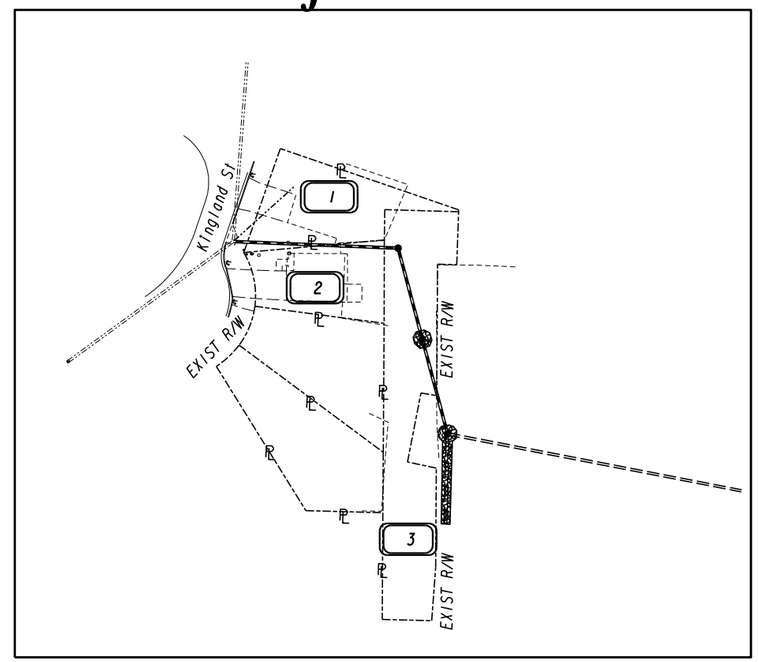
THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983)/94 WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD)OF 1988.

PROJECT 74008



N BRIAR RIDGE LOCATION

PROJECT 63001



KINGLAND STREET LOCATION

PREPARED BY: _____

CHARLIE A. LANZ, PE

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY 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 CHEROKEE COUNTY IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.

COUNTY: CHEROKEE (057)
KINGLAND ST - LAND LOT 686
N BRIAR RIDGE - LAND LOT 687
THIS PROJECT IS 100% IN CHEROKEE COUNTY AND IS 100% IN CONG. DIST. NO. 11.
PROJECT DESIGNATION: EXEMPT

PLANS PREPARED BY:

CALCO ENGINEERING

SCALE IN FEET
0 50 100 200

PLANS COMPLETED 05-18-22	
REVISIONS	

DRAWING No.
01-0001

DRAWING NO.	DESCRIPTION
	INDEX
1-0001	Cover
2-0001	Index
3-0001	Revision Summary
4-0001	General Notes
6-0001	Summary Quantities
9-0001	Detailed Estimate
13-0001 to 13-0002	Mainline Plan
22-0001 to 22-0002	Drainage Profiles
24-0000 to 24-0002	Utility Plan
60-0001 to 60-0004	Right of Way Plans
	Erosion Control Construction Standards and Details (Not Included in Plan Set)
D-54	Sod Installation (4-16)
D-55B	RipRap Outlet Protection(Sheet 2 of 2) (4-16)
	Georgia Department of Transportation Standards (Not Included in Plan Set)
1030P	Thermoplastic Pipe (11-19)
1401	Pavement Patching Details (Storm Drain by Open Cut Across Existing Pavement) (8-99)
9032-B	Concrete Curb and Gutter, Concrete Curbs, Concrete Medians (1-21)

DRAWING NO.	DESCRIPTION

CALCO ENGINEERING

REVISION DATES		

INDEX

KINGLAND ST / N BRIAR RIDGE
DRAINAGE IMPROVEMENTS

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		02-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

DATE	DRAWING NO.	REVISION

DATE	DRAWING NO.	REVISION

CALCO ENGINEERING

REVISION DATES

REVISION SUMMARY

KINGLAND ST / N BRIAR RIDGE

DRAINAGE IMPROVEMENTS

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.

03-0001

PROJECT GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH CHEROKEE COUNTY AND GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD AND SUPPLEMENTAL SPECIFICATIONS, CURRENT EDITION. ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE COUNTY.

2. ALL KNOWN FACILITIES ARE SHOWN SCHEMATICALLY ON PLANS, AND ARE NOT NECESSARILY ACCURATE IN LOCATION AS TO PLAN OR ELEVATION. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON PLANS WILL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY UNDER THIS REQUIREMENT. "EXISTING UTILITY FACILITIES" MEANS ANY UTILITY THAT EXISTS ON THE PROJECT IN ITS ORIGINAL, RELOCATED OR NEWLY INSTALLED POSITION.

3. UTILITY WORK COORDINATION WILL BE REQUIRED AS A PART OF THIS CONTRACT. THE CONTRACTOR SHALL BE REQUIRED TO USE THE ONE-CALL CENTER TELEPHONE NUMBER, 811 OR 1-800-282-7411, FOR THE PURPOSE OF COORDINATING THE MARKING OF UNDERGROUND UTILITIES. THE CONTRACTOR'S ATTENTION IS CALLED TO SUB-SECTION 105.06 OF THE GADOT STANDARD SPECIFICATIONS "COOPERATION WITH UTILITIES.

4. INGRESS AND EGRESS SHALL BE MAINTAINED AT ALL TIMES TO ADJACENT PROPERTIES. REFER TO SUB-SECTION 107.07 OF THE GEORGIA STANDARD SPECIFICATIONS.

5. RIGHT-OF-WAY MARKERS IN RESIDENTIAL LAWN AND DEVELOPED COMMERCIAL AREAS SHALL BE PLACED FLUSH WITH THE FINISH SURFACE.

6. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FURNISH SUITABLE BORROW MATERIAL FOR THE PROJECT AND TO DISPOSE OF ANY UNSUITABLE OR WASTE MATERIAL IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. CONCRETE AND ASPHALT MATERIALS REMOVED FROM THE PROJECT SITE MAY NOT BE PLACED IN FILL LOCATIONS THAT FALL WITHIN EASEMENT AREAS. WITH THE PRIOR APPROVAL OF THE ENGINEER, THESE MATERIALS MAY BE PLACED WITHIN THE R/W PROVIDED THERE IS THREE (3') FEET OF MINIMUM COVER AND THERE ARE NO PLANS FOR THE FUTURE WIDENING OF THE ROADWAY. ALL FILL AREAS MUST BE COMPACTED TO MINIMUM 95% STANDARD PROCTOR.

7. PERFORATED UNDERDRAIN SHALL BE PLACED IN AREAS WHERE WET CONDITIONS EXIST IN THE SUBGRADE AS DIRECTED BY ENGINEER.

8. STRUCTURES, TREES, SHRUBS AND OTHER PLANT MATERIAL THAT FALL WITHIN THE RIGHT-OF-WAY AND EASEMENT LIMITS, BUT OUTSIDE THE LIMITS OF CONSTRUCTION, SHALL NOT BE DISTURBED UNLESS DIRECTED BY THE ENGINEER.

9. THE CONTRACTOR SHALL OBSERVE ALL APPLICABLE LOCAL, STATE AND FEDERAL SAFETY REGULATIONS REGARDING PIPE INSTALLATION IN TRENCHES. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COST INCURRED TO COMPLY WITH THE REQUIREMENT.

10. ALL EXISTING PIPE AND STRUCTURES NO LONGER IN USE SHALL BE REMOVED UNLESS OTHERWISE NOTED ON PLANS OR AS DIRECTED BY THE ENGINEER. REMOVAL OF PIPE SHALL BE INCLUDED IN PRICE BID FOR "GRADING COMPLETE".

11. IN AREA WHERE NEW PAVEMENT OR PAVEMENT WIDENING IS REQUIRED, SAW CUT OF EXISTING PAVEMENT WILL BE REQUIRED IN ACCORDANCE WITH SECTION 411 OF THE GEORGIA STANDARD SPECIFICATIONS AND WILL BE INCLUDED IN PRICE BID FOR "GRADING COMPLETE".

12. ALL ROAD SIGNS AND COUNTY SIGNS SHALL BE RESET AND PAYMENT SHALL BE INCLUDED IN "TRAFFIC CONTROL".

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, RELOCATING AND MAINTAINING THE PROPERTY OWNER'S MAILBOX TO AN AREA OUTSIDE CONSTRUCTION LIMITS DURING THE LIFE OF THE CONTRACT. THE LOCATION OF THE BOX SHOULD BE CONVENIENT TO BOTH THE MAIL CARRIER AND THE PATRON. YET NOT INTERFERE WITH PROPOSED WORK. IT MAY BE NECESSARY FOR THE CONTRACTOR TO CONFER WITH THE POST OFFICE SERVING THE AREA. ALL COSTS INCURRED FOR COMPLIANCE WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE.

GEORGIA811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

14. ALL DRIVEWAYS SHALL BE MAINTAINED DURING CONSTRUCTION. ALL DRIVEWAYS TO BE CONSTRUCTED SHALL BE REPLACED IN KIND I.E. ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE ETC. ANY OTHER DRIVEWAY MATERIAL OR SPECIALIZED DRIVEWAY WILL NOT BE REPLACED IN KIND (I.E. PAVERS) AND WILL BE REPLACED WITH ASPHALT OR CONCRETE. ALL EARTH OR GRAVEL DRIVES SHALL BE PAVED WITH ASPHALT TO THE RIGHT-OF-WAY LIMIT OR TIE-IN POINT. DRIVEWAYS SHALL BE PAVED AS FOLLOWS:

ASPHALTIC DRIVES
RESIDENTIAL - 1-1/2" ASPH. CONC. 12.5 MM SUPERPAVE, 165 LB/SY
- 6" GRADED AGGREGATE BASE
COMMERCIAL - 1-1/2" ASPH. CONC. 12.5 MM SUPERPAVE, 165 LB/SY
- 2" ASPH CONC. 19 MM SUPERPAVE, 220 LB/SY
- 8" GRADED AGGREGATE BASE

CONCRETE DRIVES
RESIDENTIAL - 6" CONCRETE VALLEY GUTTER
- 6" CONCRETE DRIVEWAY
COMMERCIAL - 8" CONCRETE VALLEY GUTTER
- 8" CONCRETE DRIVEWAY

15. LUMP-SUM TRAFFIC CONTROL: THE PRICE BID FOR LUMP-SUM TRAFFIC CONTROL INCLUDE THE COST OF STAGED CONSTRUCTION, MAINTENANCE OF TRAFFIC (INCLUDING AGGREGATE SURFACE COURSE), INSTALLATION AND REMOVAL OF ALL TEMPORARY SIGNAGE, INTERIM PAVEMENT MARKINGS, BARRICADES, AND OTHER INTERIM TRAFFIC CONTROL DEVICES NECESSARY FOR THE CONSTRUCTION AND MAINTENANCE OF THE PROJECT. DEVICES UTILIZED ON THE PROJECT SHALL BE IN COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION AND SECTION 150. ALL DEVICES, SIGNS, POSTS, BARRICADES, ETC SHALL BE FROM THE GDOT QUALIFIED PRODUCTS LIST (QPL). ALL DEVICES SHALL BE CRASHWORTHY UNDER AASHTO AND NCHRP 350 REQUIREMENTS. THE ENGINEER MAY DIRECT THAT ADDITIONAL DEVICES AND MARKINGS BE ADDED TO THE TRAFFIC CONTROL PLAN. THE COST OF NOMINAL ITEMS ADDED BY THE ENGINEER SHALL BE INCLUDED IN LUMP-SUM TRAFFIC CONTROL EXCEPT FOR THE ADDITION OF A CHANGEABLE MESSAGE SIGN(S) OR A UNIT PRICE WILL BE DETERMINED WHEN A CHANGEABLE MESSAGE SIGN(S) IS NOT INCLUDED IN THE CONTRACT.

16. ALL CUT AND FILL SLOPES SHALL BE STABILIZED TO COMPLY WITH SECTION 161.3.05.B OF THE SPECIFICATIONS IN ORDER TO REDUCE THE POTENTIAL FOR EROSION. IF THE SEASON DOES NOT PERMIT PERMANENT GRASSING, TEMPORARY STRAW MULCH AND/OR TEMPORARY VEGETATION SHALL BE USED AS PER THE EROSION AND SEDIMENTATION POLLUTION CONTROL PLAN (ESPCP) OR AS DIRECTED BY THE ENGINEER.

17. SPRINKLER SYSTEMS TO BE HANDLED AS FOLLOWS:
CASE 1 - SYSTEMS WITHIN THE CONSTRUCTION LIMITS OWNED BY INDIVIDUALS OR PRIVATE COMPANIES ARE TO BE REMOVED TO THE BACK OF THE CONSTRUCTION LIMITS, PLUGGED, AND REPLACED ONCE CONSTRUCTION IS COMPLETED. COST SHALL BE INCLUDED IN PRICE BID FOR "GRADING COMPLETE".

18. AN N.O.I (NOTICE OF INTENT) IS NOT REQUIRED FOR THIS PROJECT. TOTAL DISTURBED AREA = 0.03 ACRES

19. ALL EXISTING STORM DRAIN PIPES INCLUDING BOX CULVERTS WITHIN THE CONSTRUCTION LIMITS SHALL BE CLEANED PRIOR TO COMPLETION OF PROJECT. COST TO BE INCLUDED IN GRADING COMPLETE.

20. ALL DISTURBED GRASSED AREAS SHALL BE REPLACED IN KIND WITH SOD. PRICE SHALL BE INCLUDED IN THE PRICE BID FOR 700-9300 SOD.

21. CHEROKEE COUNTY IS REQUIRING RCP STORM DRAIN PIPE UNDER TRAVEL BEARING CONDITIONS. HOWEVER, IF RCP IS IN SHORT SUPPLY AT THE TIME BID/CONSTRUCTION THEN THERMOPLASTIC PIPE WILL BE CONSIDERED UNDER THE FOLLOWING: THERMOPLASTIC PIPE WILL BE ALLOWED FOR SIDE DRAIN APPLICATIONS USING GDOT STANDARD 1030P. ANY AND ALL THERMOPLASTIC PIPE USED WILL HAVE VIDEO AFTER INSTALLATION TO SHOW PROPER INSTALLATION. PRICE FOR VIDEO WILL BE INCLUDED IN THE BID PRICE FOR PIPE INSTALLATION.

CALCO ENGINEERING

REVISION DATES

GENERAL NOTES
KINGLAND ST / N BRIAR RIDGE
DRAINAGE IMPROVEMENTS

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
04-0001

SUMMARY OF QUANTITIES

GRADING COMPLETE KINGLAND ST	
TOTAL	LUMP SUM

GRADING COMPLETE N BRIAR RIDGE	
TOTAL	LUMP SUM

TRAFFIC CONTROL KINGLAND ST	
TOTAL	LUMP SUM

TRAFFIC CONTROL N BRIAR RIDGE	
TOTAL	LUMP SUM

FOUND BKFILL MATL, TP II		
	UNIT	QTY.
N BRIAR RIDGE	CY	50
KINGLAND ST	CY	50
TOTAL	CY	100

UNDERCUT EXCAVATION		
	UNIT	QTY.
N BRIAR RIDGE	CY	50
KINGLAND ST	CY	50
TOTAL	CY	100

STRUCTURE NUMBER	LOCATION	LF 18 INCH STORMDRAIN 1'-10'	LF 48 INCH STORMDRAIN 1'-10'	PEDESTAL STYLE INLET - ROUND PRECAST EA	CATCH BASIN - PRECAST EA	STORM SEWER MANHOLE - ROUND PRECAST EA	STONE DUMPED RIP RAP, TP3, 18 IN SY	PLASTIC FILTER FABRIC SY	HEADWALL - PRECAST EA	PROFILE DRAINAGE SHEET NUMBER
A1	KINGLAND ST	110								22-0001
A2	KINGLAND ST	62				1				22-0001
A3	KINGLAND ST	65		1			12	12		22-0001
A4	KINGLAND ST			1			50	50		22-0001
	KINGLAND ST TOTAL	237		2		1	62	62		
B1	N BRIAR RIDGE		98				19	19	1	22-0002
B2	N BRIAR RIDGE		47		1					22-0002
B3	N BRIAR RIDGE		124		1					22-0002
B4	N BRIAR RIDGE		80	1						22-0002
B5	N BRIAR RIDGE		25			1				22-0002
B6	N BRIAR RIDGE						11	11	1	22-0002
	N BRIAR RIDGE TOTAL		374	1	2	1	30	30	2	
	PROJECT TOTAL	237	374	3	2	2	92	92	2	

LOCATION	GR AGGR BASE CRS, INCL MATL TN	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME (165 LBS/SY) TN	TACK COAT GL	DRIVEWAY CONCRETE, 6 IN TK SY	CONC CURB & GUTTER, 8 IN X 24 IN, TP 2 LF	CLASS B CONC, BASE OR PVMT WIDENING CY
N BRIAR RIDGE	9	4	3	170	50	8
KINGLAND STREET	--	--	--	-		--
TOTAL	9	4	3	170	50	8

MULCH		
	UNIT	QTY.
N BRIAR RIDGE	TN	1
KINGLAND ST	TN	3
TOTAL	TN	4

SOD		
	UNIT	QTY.
N BRIAR RIDGE	SY	500
KINGLAND ST	SY	200
TOTAL	SY	700

CALCO ENGINEERING

REVISION DATES
6/21/21

SUMMARY QUANTITIES

KINGLAND ST / N BRIAR RIDGE
DRAINAGE IMPROVEMENTS

CHECKED: DATE:
BACKCHECKED: DATE:
CORRECTED: DATE:
VERIFIED: DATE:

DRAWING No. 06-0001

DETAILED ESTIMATE

ITEM NO.	ITEM	UNIT	QUANTITY
	KINGLAND ST ITEMS		
150-1000	TRAFFIC CONTROL -	LS	LUMP
163-0240	MULCH	TN	3
207-0203	FOUND BKFILL MATL, TP II	CY	50
210-0100	GRADING COMPLETE -	LS	LUMP
210-0250	UNDERCUT EXCAVATION	CY	50
550-1180	STORM DRAIN PIPE, 18 IN, H 1-10	LF	237
603-2181	STN DUMPED RIP RAP, TP 3, 18 IN	SY	62
603-7000	PLASTIC FILTER FABRIC	SY	62
668-4300	STORM SEWER MANHOLE, TP 1	EA	1
668-9999	PEDESTAL STYLE INLET	EA	2
700-9300	SOD	SY	200
	N BRIAR RIDGE ITEMS		
150-1000	TRAFFIC CONTROL -	LS	LUMP
163-0240	MULCH	TN	1
207-0203	FOUND BKFILL MATL, TP II	CY	50
210-0100	GRADING COMPLETE -	LS	LUMP
210-0250	UNDERCUT EXCAVATION	CY	50
310-1101	GR AGGR BASE CRS, INCL MATL	TN	9
402-3130	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME (165 LBS/SY)	TN	4
413-0750	TACK COAT	GL	3
441-0016	DRIVEWAY CONCRETE, 6 IN TK	SY	170
441-6216	CONC CURB & GUTTER, 8 IN X 24 IN, TP 2	LF	50
500-3800	HEADWALL (PRECAST - 48" PIPE)	EA	2
500-9999	CLASS B CONC, BASE OR PVMT WIDENING	CY	8
550-1480	STORM DRAIN PIPE, 48 IN, H 1-10	LF	374
603-2181	STN DUMPED RIP RAP, TP 3, 18 IN	SY	30
603-7000	PLASTIC FILTER FABRIC	SY	30
668-1100	CATCH BASIN, GP 1	EA	2
668-4300	STORM SEWER MANHOLE	EA	1
668-9999	PEDESTAL STYLE INLET	EA	1
700-9300	SOD	SY	500

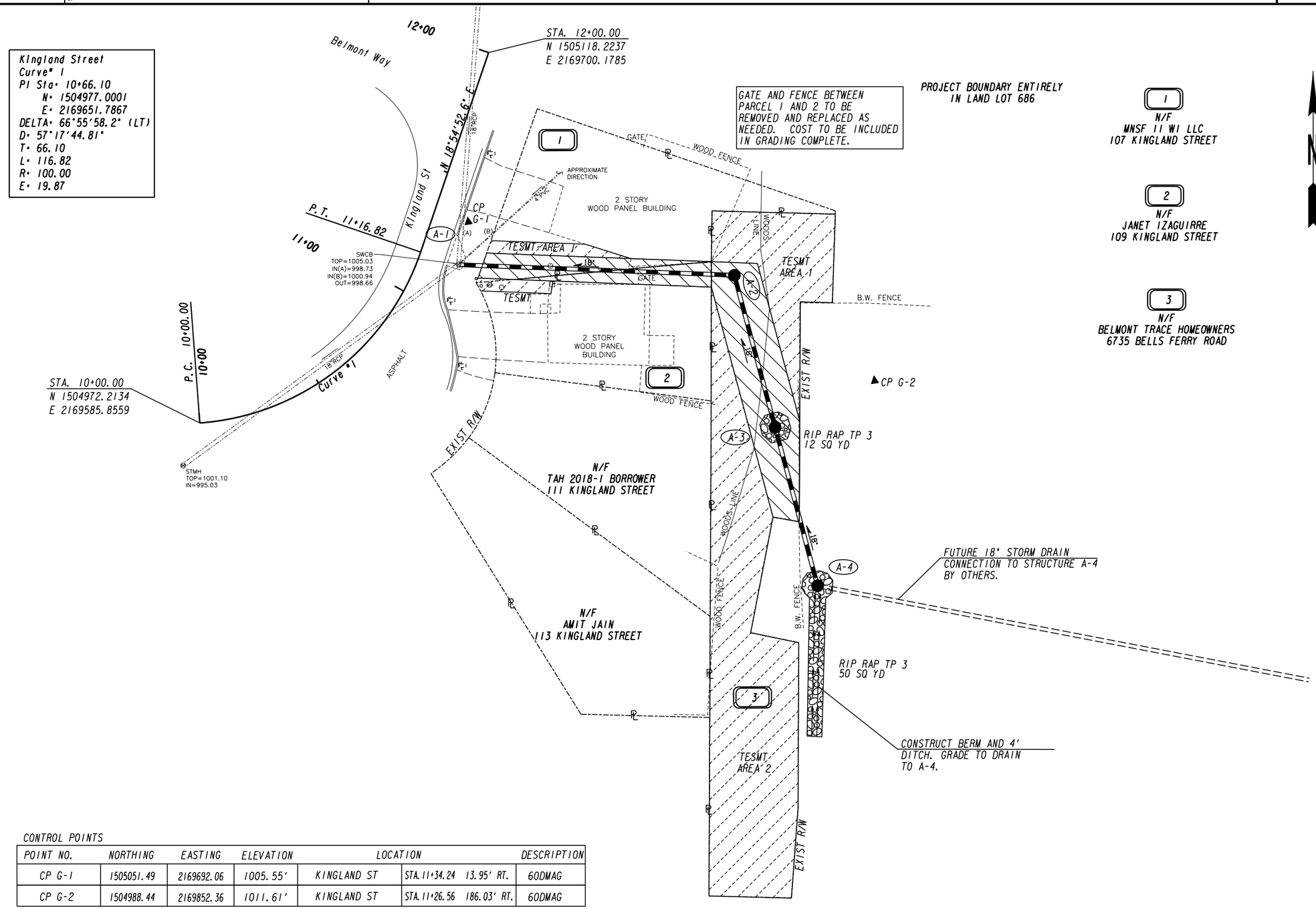
CALCO ENGINEERING

REVISION DATES
6/21/21

DETAILED ESTIMATE
KINGLAND ST / N BRIAR RIDGE
DRAINAGE IMPROVEMENTS

CHECKED: DATE:
BACKCHECKED: DATE:
CORRECTED: DATE:
VERIFIED: DATE:

DRAWING No.
09-0001



CONTROL POINTS

POINT NO.	NORTHING	EASTING	ELEVATION	LOCATION		DESCRIPTION
CP G-1	1505051.49	2169692.06	1005.55'	KINGLAND ST	STA. 11+34.24 13.95' RT.	60DMAG
CP G-2	1504988.44	2169852.36	1011.61'	KINGLAND ST	STA. 11+26.56 186.03' RT.	60DMAG

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
PERMANENT DRAINAGE EASEMENT
TEMPORARY CONST. EASEMENT
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

CALCO ENGINEERING

SCALE IN FEET
0 20 40 80

REVISION DATES

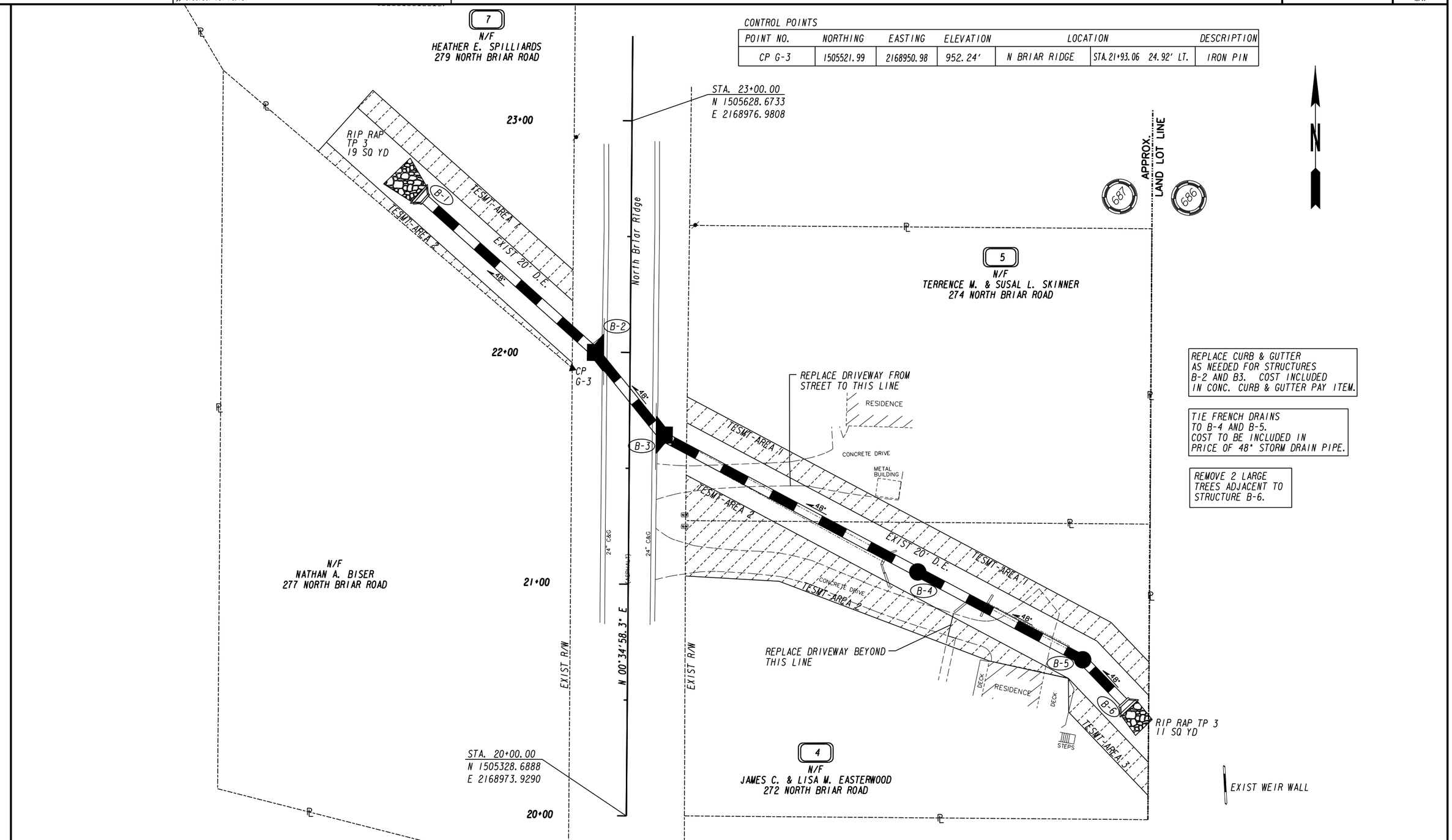
CONSTRUCTION PLAN
KINGLAND ST / N BRIAR RIDGE DRAINAGE IMPROVEMENTS

CHECKED: DATE:
BACKCHECKED: DATE:
CORRECTED: DATE:
VERIFIED: DATE:

DRAWING No. 13-0001

CONTROL POINTS

POINT NO.	NORTHING	EASTING	ELEVATION	LOCATION		DESCRIPTION
CP G-3	1505521.99	2168950.98	952.24'	N BRIAR RIDGE	STA. 21+93.06 24.92' LT.	IRON PIN



PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT DRAINAGE EASEMENT	
TEMPORARY CONST. EASEMENT	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS	BLA
END LIMIT OF ACCESS	ELA
REQ'D LIMIT OF ACCESS	
REQ'D LIMIT OF ACCESS & R/W	
ORANGE BARRIER FENCE	
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	

CALCO ENGINEERING

SCALE IN FEET
0 20 40 80

REVISION DATES

CONSTRUCTION PLAN

KINGLAND ST / N BRIAR RIDGE
DRAINAGE IMPROVEMENTS

CHECKED:		DATE:	
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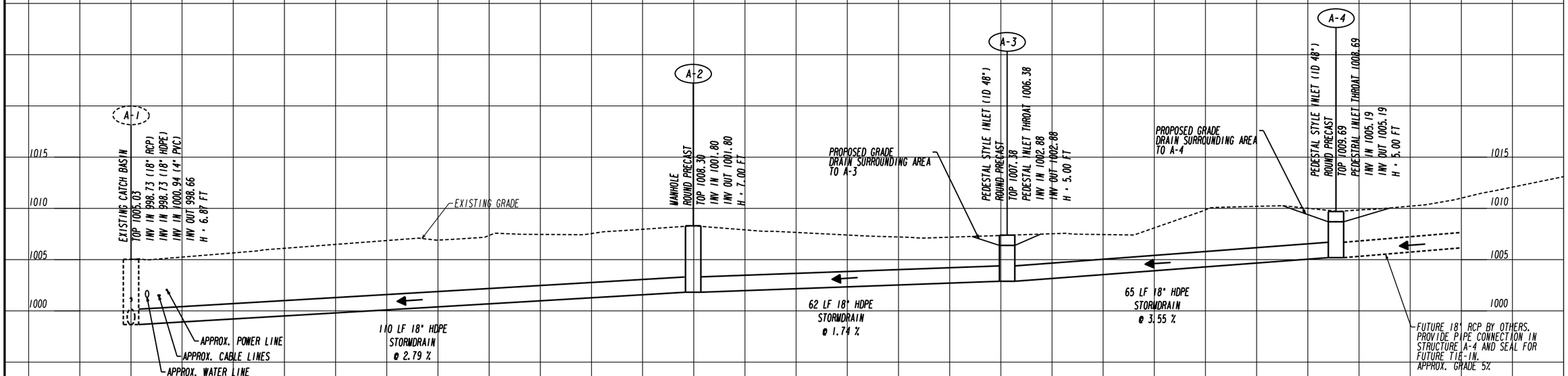
DRAWING No.
13-0002



CALCO ENGINEERING

HORIZ.
SCALE IN FEET
0 10 20

VERT.
SCALE IN FEET
0 5 10

REVISION DATES

DRAINAGE PROFILES
KINGLAND ST / N BRIAR RIDGE
DRAINAGE IMPROVEMENTS

CHECKED:		DATE:	
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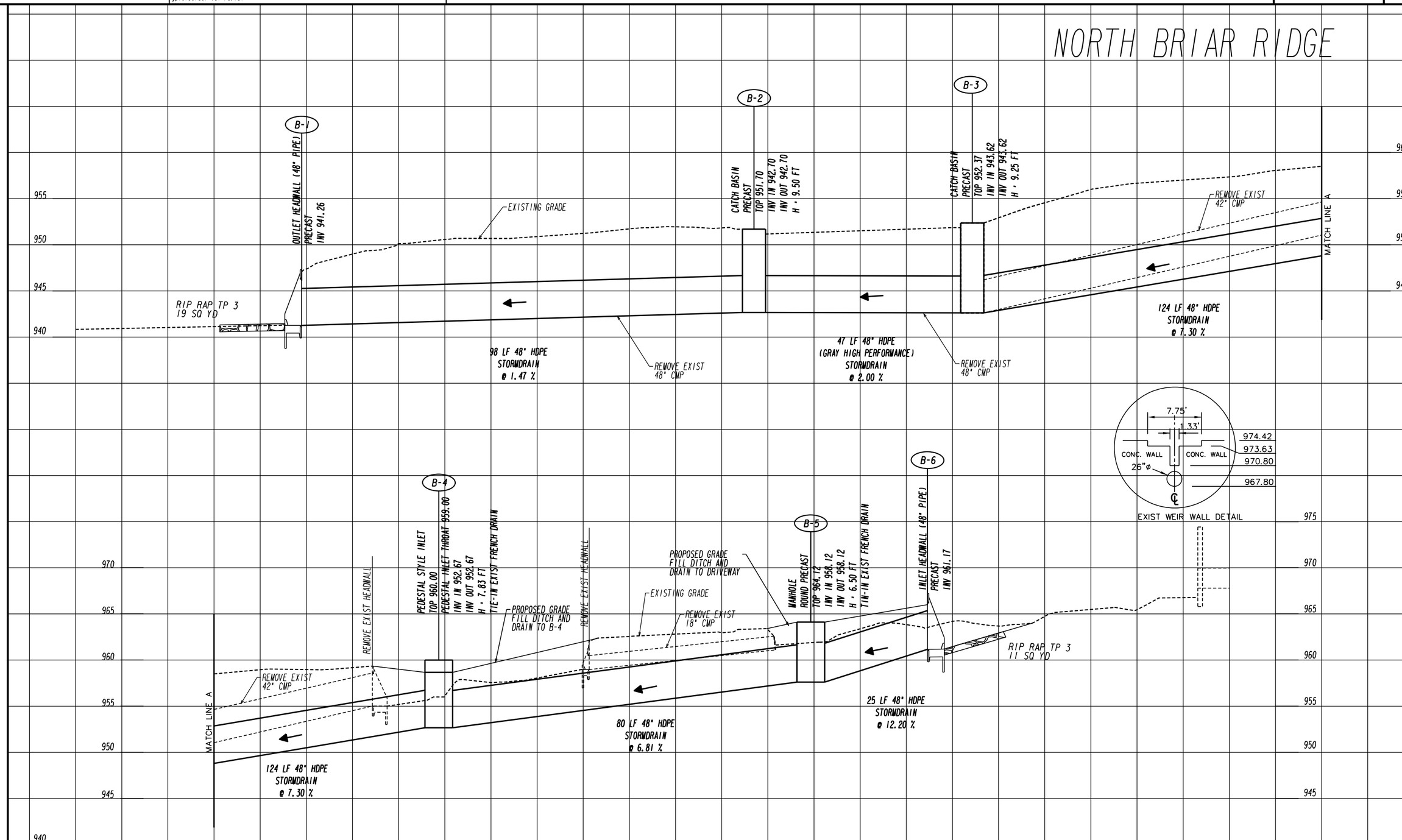
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
22-0001

NORTH BRIAR RIDGE



CALCO ENGINEERING

HORIZ.
SCALE IN FEET
0 10 20

VERT.
SCALE IN FEET
0 5 10

REVISION DATES

DRAINAGE PROFILES
KINGLAND ST / N BRIAR RIDGE
DRAINAGE IMPROVEMENTS

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DRAWING No.
22-0002

	EXISTING	TO BE REMOVED	PROPOSED	TYPE OF UTILITY
OVERHEAD	E	E	E	ELECTRIC
	E-T	E-T	E-T	ELECTRIC, TELECOMMUNICATION
	E-TV	E-TV	E-TV	ELECTRIC, CABLE TV
	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	TELECOMMUNICATIONS, CABLE TV
	TV	TV	TV	CABLE TV
	TV-TC	TV-TC	TV-TC	CABLE TV, TRAFFIC CONTROL
				TRAFFIC CONTROL
UNDERGROUND	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)
	**SS	**SS	**SS	SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-D)
	**SS(C)	**SS(C)		SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-C)
	**SS(B)	**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)

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, 6"DIP (INCLUDES ASSOCIATED VALVE)
BFP	BFP	BFP	BACKFLOW PREVENTER
PIV	PIV	PIV	PRESSURE INDICATOR VALVE
ARV	ARV	ARV	AIR RELEASE VALVE
W	W	W	WELL
W	W	W	WATER VAULT

EXISTING	PROPOSED	TEMPORARY	
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
TC			TRAFFIC CONTROL MANHOLE
			TRAFFIC CONTROL PEDESTRIAN SIGNAL

MISC.

LOS	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
C123	CONFLICT LOCATION ID

CALCO ENGINEERING

REVISION DATES

UTILITY PLANS
KINGLAND ST / N BRIAR RIDGE
DRAINAGE IMPROVEMENTS

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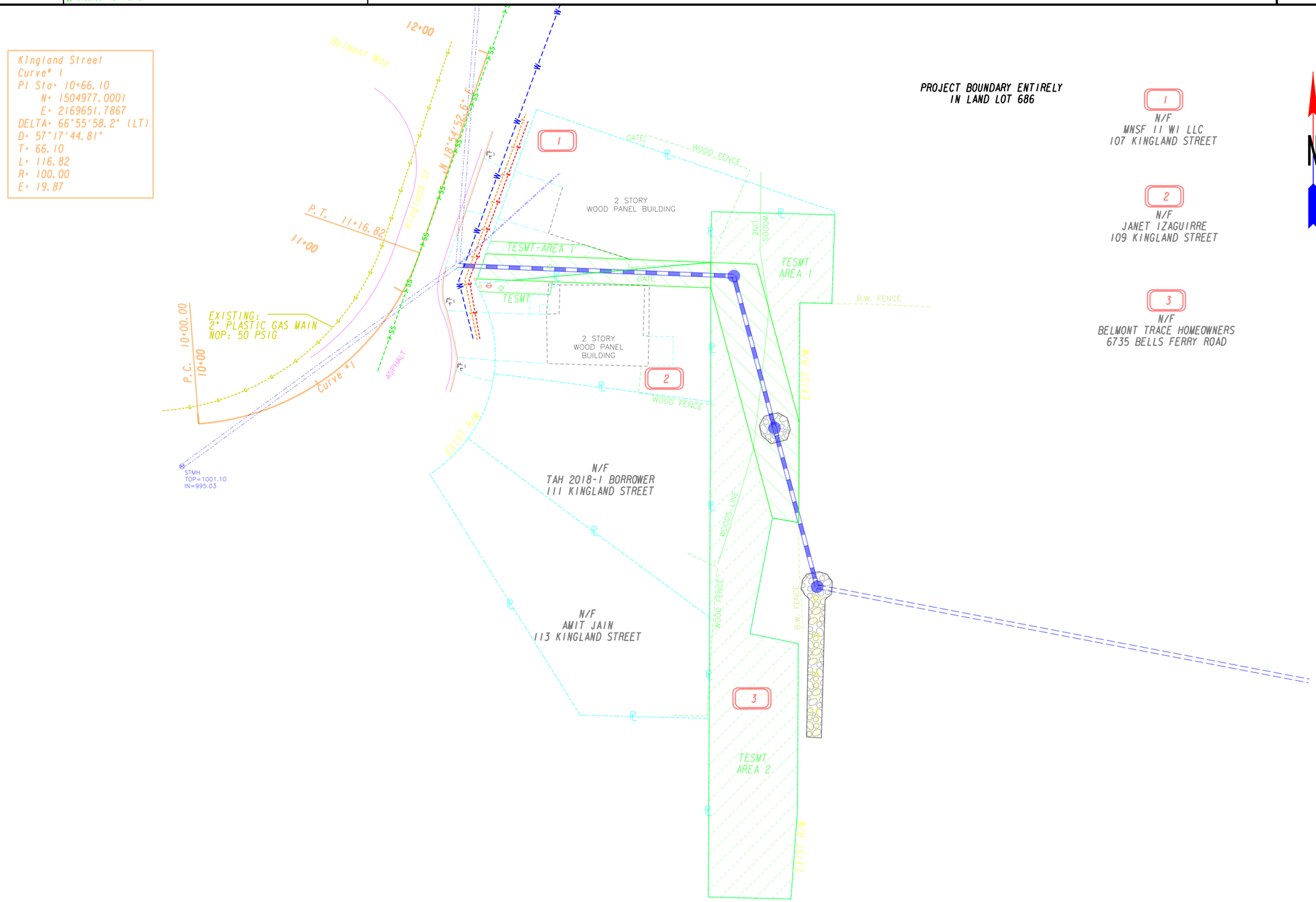
DRAWING No. 24-0000



PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	C F
PERMANENT DRAINAGE EASEMENT	
TEMPORARY CONST. EASEMENT	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS	BLA
END LIMIT OF ACCESS	ELA
REQ'D LIMIT OF ACCESS	
REQ'D LIMIT OF ACCESS & R/W	
ORANGE BARRIER FENCE	
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	

CALCO ENGINEERING

SCALE IN FEET
0 20 40 80

REVISION DATES

UTILITY PLAN

KINGLAND ST / N BRIAR RIDGE
DRAINAGE IMPROVEMENTS

CHECKED:		DATE:	
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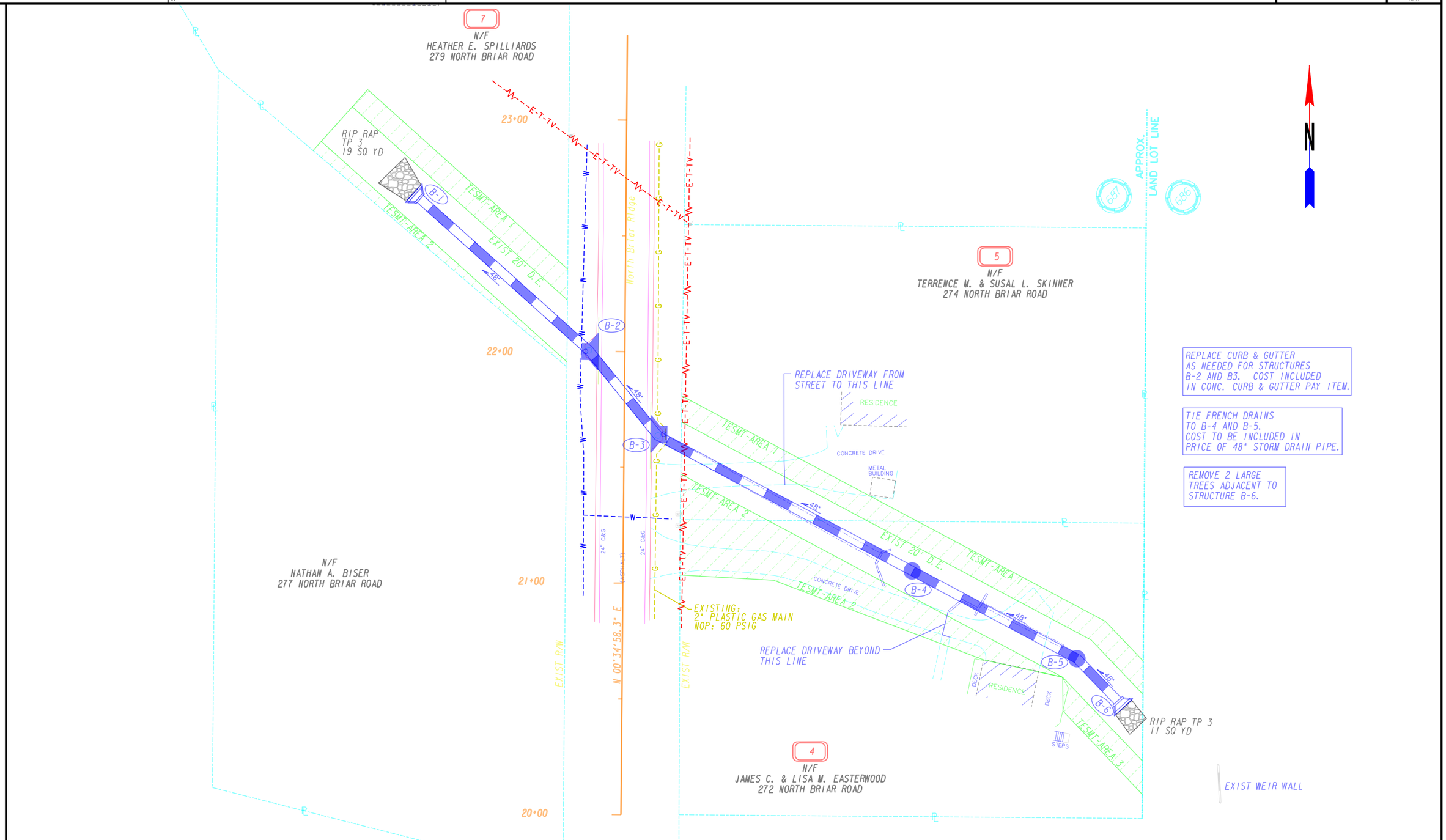
24-0001



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
PERMANENT DRAINAGE EASEMENT
TEMPORARY CONST. EASEMENT
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

CALCO ENGINEERING

SCALE IN FEET
0 20 40 80

REVISION DATES

UTILITY PLAN

KINGLAND ST / N BRIAR RIDGE
DRAINAGE IMPROVEMENTS

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

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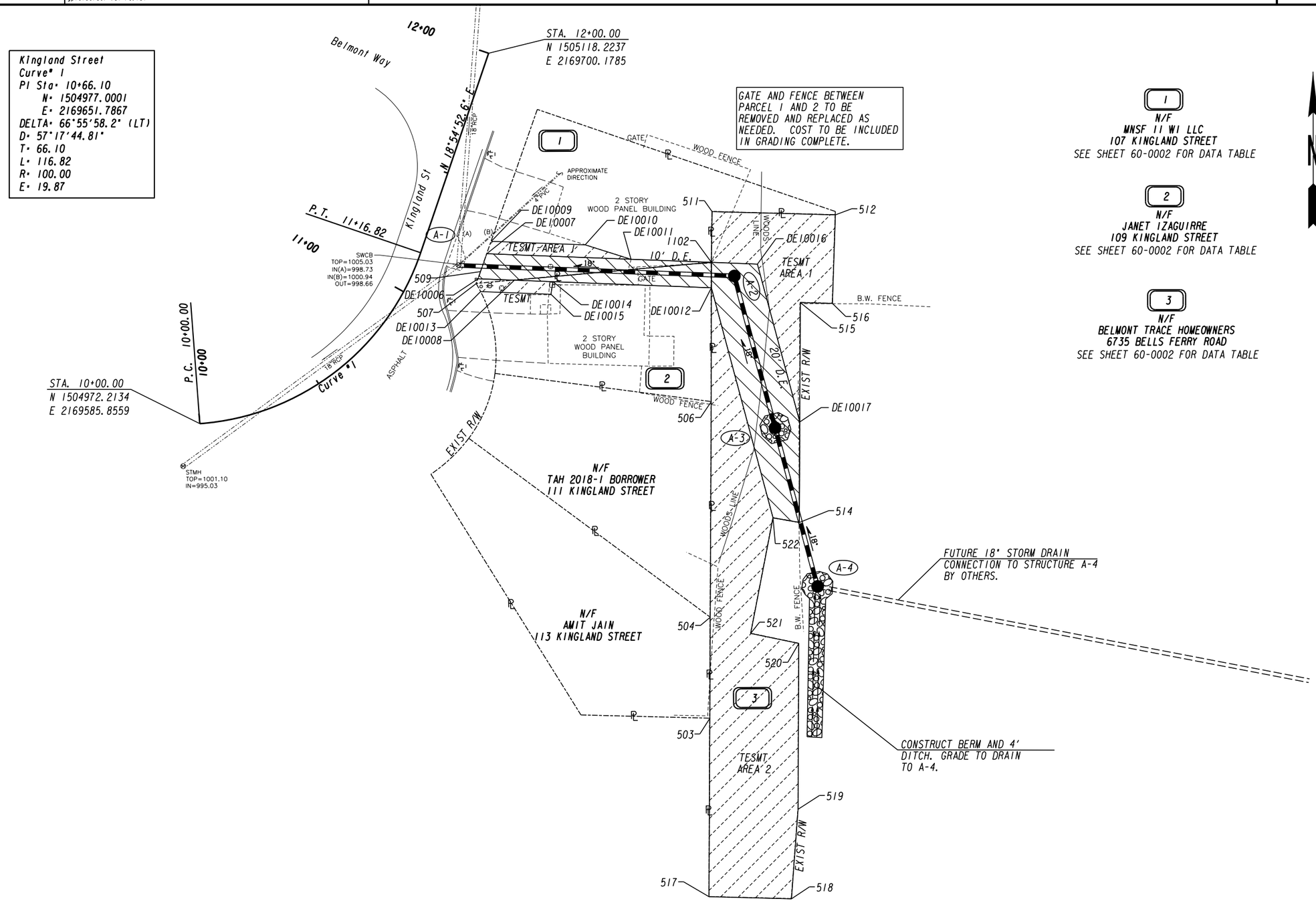
24-0002



1
N/F
MNSF II WI LLC
107 KINGLAND STREET
SEE SHEET 60-0002 FOR DATA TABLE

2
N/F
JANET IZAGUIRRE
109 KINGLAND STREET
SEE SHEET 60-0002 FOR DATA TABLE

3
N/F
BELMONT TRACE HOMEOWNERS
6735 BELLS FERRY ROAD
SEE SHEET 60-0002 FOR DATA TABLE

N

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT DRAINAGE EASEMENT	
TEMPORARY CONST. EASEMENT	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS	BLA
END LIMIT OF ACCESS	ELA
REQ'D LIMIT OF ACCESS	
REQ'D LIMIT OF ACCESS & R/W	
ORANGE BARRIER FENCE	
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	

CALCO ENGINEERING

SCALE IN FEET
0 20 40 80

REVISION DATES

RIGHT OF WAY PLAN
KINGLAND ST / N BRIAR RIDGE
DRAINAGE IMPROVEMENTS

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CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
60-0001

****
DRAINAGE ESMT - PAR 1 REQ'D PERM. EASM'T. DE101
****

PNT	OFFSET/ DIST		STATION/ BEARING	ALIGNMENT
DE10006	24.78	R	11+14.85	Kingland St C/L
	3.00		N 19°47'17.8" E	
509	24.80	R	11+17.37	Kingland St C/L
	7.47		N 19°26'10.2" E	
DE10007	24.87	R	11+24.84	Kingland St C/L
	88.73		S 87°42'02.3" E	
1102	109.89	R	11+50.21	Kingland St C/L
	78.13		S 84°56'45.5" W	
DE10008	38.50	R	11+18.47	Kingland St C/L
	14.34		N 87°42'02.3" W	
DE10006	24.78	R	11+14.85	Kingland St C/L

REQD EASMT = 515.27 SF
REQD EASMT = 0.012 ACRES

****
TESMT AREA 1 - PAR 1 REQ'D TEMP. EASM'T. DE102
****

PNT	OFFSET/		STATION/	ALIGNMENT
DE10007	24.87	R	11+24.84	Kingland St C/L
DE10009	24.92	R	11+30.07	Kingland St C/L
DE10010	60.49	R	11+40.69	Kingland St C/L
DE10011	79.47	R	11+41.13	Kingland St C/L
DE10007	24.87	R	11+24.84	Kingland St C/L

REQD EASMT AREA = 235.26 SF

****
TESMT AREA 2 - PAR 1 REQ'D TEMP. EASM'T. DE103
****

PNT	OFFSET/		STATION/	ALIGNMENT
507	24.77	R	11+13.22	Kingland St C/L
DE10006	24.78	R	11+14.85	Kingland St C/L
DE10008	38.50	R	11+18.47	Kingland St C/L
507	24.77	R	11+13.22	Kingland St C/L

REQD EASMT AREA = 13.87 SF

TESMT PARCEL 1 AREA 1 = 235.26 SF
TESMT PARCEL 1 AREA 2 = 13.87 SF

TOTAL TESMT PARCEL 1 = 249.13 SF

****
DRAINAGE ESMT - PAR 2 REQ'D PERM. EASM'T. DE104
****

PNT	OFFSET/ DIST		STATION/ BEARING	ALIGNMENT
DE10008	38.50	R	11+18.47	Kingland St C/L
	78.13		N 84°56'45.5" E	
1102	109.89	R	11+50.21	Kingland St C/L
	10.01		S 0°10'23.3" W	
DE10012	113.11	R	11+40.73	Kingland St C/L
	77.86		N 87°42'02.3" W	
DE10008	38.50	R	11+18.47	Kingland St C/L

REQD EASMT = 389.30 SF
REQD EASMT = 0.009 ACRES

****
TESMT - PAR 2 REQ'D TEMP. EASM'T. DE105
****

PNT	OFFSET/		STATION/	ALIGNMENT
DE10013	27.54	R	11+11.41	Kingland St C/L

ARC LENGTH = 3.59
CHORD BEAR = N 29°06'29.3" W
LNTH CHORD = 3.59
RADIUS = 55.00
DEGREE = 104°10'26.9"

507	24.77	R	11+13.22	Kingland St C/L
DE10008	38.50	R	11+18.47	Kingland St C/L
DE10014	53.12	R	11+22.83	Kingland St C/L
DE10015	53.98	R	11+17.87	Kingland St C/L
DE10013	27.54	R	11+11.41	Kingland St C/L

REQD EASMT AREA = 132.33 SF

****
DRAINAGE ESMT - PAR 3 REQ'D PERM. EASM'T. DE106
****

PNT	OFFSET/ DIST		STATION/ BEARING	ALIGNMENT
1102	109.89	R	11+50.21	Kingland St C/L
	18.21		S 87°42'02.3" E	
DE10016	127.35	R	11+55.42	Kingland St C/L
	64.53		S 14°53'26.0" E	
DE10017	163.67	R	11+11.12	Kingland St C/L
	39.67		S 0°21'40.0" W	
514	180.84	R	10+97.97	Kingland St C/L
	10.56		N 79°48'37.5" W	
522	170.91	R	10+96.67	Kingland St C/L
	94.04		N 14°53'26.0" W	
DE10012	113.11	R	11+40.73	Kingland St C/L
	10.01		N 0°10'23.3" E	
1102	109.89	R	11+50.21	Kingland St C/L

REQD EASMT = 1883.12 SF
REQD EASMT = 0.043 ACRES

****
TESMT AREA 1 - PAR 3 REQ'D TEMP. EASM'T. DE107
****

PNT	OFFSET/		STATION/	ALIGNMENT
511	103.69	R	11+69.26	Kingland St C/L
512	150.18	R	11+83.75	Kingland St C/L
516	160.37	R	11+50.27	Kingland St C/L
515	148.25	R	11+46.49	Kingland St C/L
DE10017	163.67	R	11+11.12	Kingland St C/L
DE10016	127.35	R	11+55.42	Kingland St C/L
1102	109.89	R	11+50.21	Kingland St C/L
511	103.69	R	11+69.26	Kingland St C/L

REQD EASMT AREA = 1695.93 SF

****
TESMT AREA 2 - PAR 3 REQ'D TEMP. EASM'T. DE108
****

PNT	OFFSET/		STATION/	ALIGNMENT
DE10012	113.11	R	11+40.73	Kingland St C/L
522	170.91	R	10+96.67	Kingland St C/L
521	189.71	R	10+81.48	Kingland St C/L
520	207.08	R	10+84.38	Kingland St C/L
519	250.51	R	10+69.43	Kingland St C/L
518	275.02	R	10+62.38	Kingland St C/L
517	254.30	R	10+55.49	Kingland St C/L
503	200.47	R	10+69.41	Kingland St C/L
504	173.34	R	10+79.62	Kingland St C/L
506	128.33	R	11+08.62	Kingland St C/L
DE10012	113.11	R	11+40.73	Kingland St C/L

REQD EASMT AREA = 5610.93 SF

TESMT PARCEL 3 AREA 1 = 1695.93 SF
TESMT PARCEL 3 AREA 2 = 5610.93 SF

TOTAL TESMT PARCEL 3 = 7306.86 SF

CALCO ENGINEERING

REVISION DATES

RIGHT OF WAY PLAN
KINGLAND ST / N BRIAR RIDGE
DRAINAGE IMPROVEMENTS

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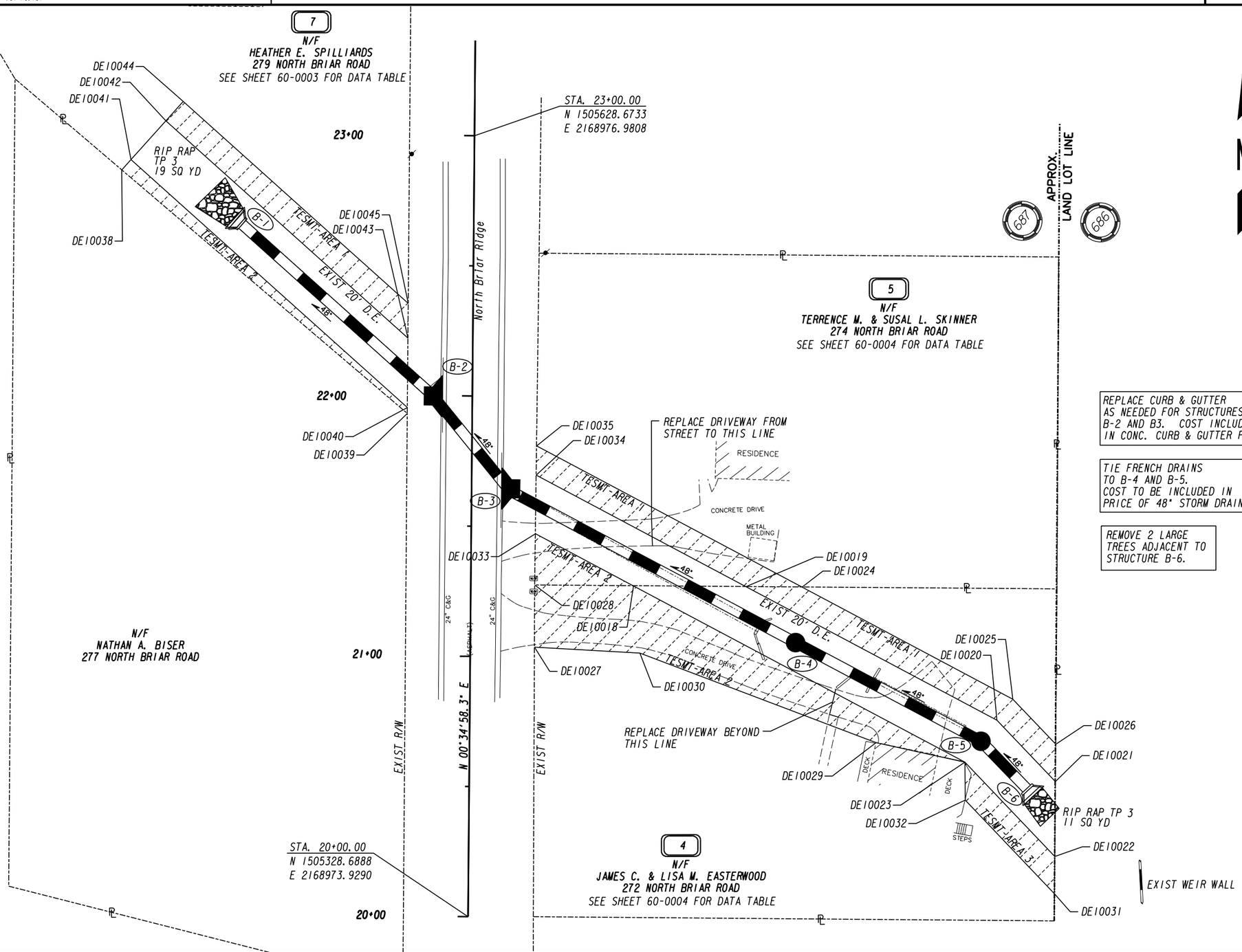

REPLACE CURB & GUTTER AS NEEDED FOR STRUCTURES B-2 AND B3. COST INCLUDED IN CONC. CURB & GUTTER PAY ITEM.

TIE FRENCH DRAINS TO B-4 AND B-5. COST TO BE INCLUDED IN PRICE OF 48" STORM DRAIN PIPE.

REMOVE 2 LARGE TREES ADJACENT TO STRUCTURE B-6.

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
PERMANENT DRAINAGE EASEMENT
TEMPORARY CONST. EASEMENT
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

CALCO ENGINEERING

SCALE IN FEET
0 20 40 80

REVISION DATES

RIGHT OF WAY PLAN
KINGLAND ST / N BRIAR RIDGE
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DRAWING No. 60-0003

****
DRAINAGE ESMT - PAR 4 REQ'D PERM. EASM'T. DE109
****

PNT	OFFSET/ DIST		STATION/ BEARING	ALIGNMENT
DE10018	62.47	R	21+27.57	North Briar Ridge C/L
	43.18		S 89°27'46.7" E	
DE10019	105.65	R	21+27.60	North Briar Ridge C/L
	109.15		S 61°52'09.4" E	
DE10020	202.42	R	20+77.13	North Briar Ridge C/L
	32.59		S 43°31'27.0" E	
DE10021	225.10	R	20+53.73	North Briar Ridge C/L
	28.74		S 0°34'25.0" W	
DE10022	225.11	R	20+24.99	North Briar Ridge C/L
	50.00		N 43°31'27.0" W	
DE10023	190.31	R	20+60.89	North Briar Ridge C/L
	144.18		N 61°52'09.4" W	
DE10018	62.47	R	21+27.57	North Briar Ridge C/L

REQD EASMT = 3359.17 SF
REQD EASMT = 0.077 ACRES

****
TESMT AREA 1 - PAR 4 REQ'D TEMP. EASM'T. DE110
****

PNT	OFFSET/		STATION/	ALIGNMENT
DE10019	105.65	R	21+27.60	North Briar Ridge C/L
DE10024	127.24	R	21+27.62	North Briar Ridge C/L
DE10025	208.48	R	20+85.24	North Briar Ridge C/L
DE10026	225.10	R	20+68.10	North Briar Ridge C/L
DE10021	225.10	R	20+53.73	North Briar Ridge C/L
DE10020	202.42	R	20+77.13	North Briar Ridge C/L
DE10019	105.65	R	21+27.60	North Briar Ridge C/L

REQD EASMT AREA = 1286.23 SF

****
TESMT AREA 2 - PAR 4 REQ'D TEMP. EASM'T. DE111
****

PNT	OFFSET/		STATION/	ALIGNMENT
DE10027	24.67	R	21+03.72	North Briar Ridge C/L
DE10028	24.56	R	21+27.54	North Briar Ridge C/L
DE10018	62.47	R	21+27.57	North Briar Ridge C/L
DE10023	190.31	R	20+60.89	North Briar Ridge C/L
DE10029	156.09	R	20+68.13	North Briar Ridge C/L
DE10030	65.12	R	21+01.79	North Briar Ridge C/L
DE10027	24.67	R	21+03.72	North Briar Ridge C/L

REQD EASMT AREA = 2776.34 SF

****
TESMT AREA 3 - PAR 4 REQ'D TEMP. EASM'T. DE112
****

PNT	OFFSET/		STATION/	ALIGNMENT
DE10032	190.49	R	20+46.33	North Briar Ridge C/L
DE10023	190.31	R	20+60.89	North Briar Ridge C/L
DE10022	225.11	R	20+24.99	North Briar Ridge C/L
DE10031	225.11	R	20+10.62	North Briar Ridge C/L
DE10032	190.49	R	20+46.33	North Briar Ridge C/L

REQD EASMT AREA = 498.67 SF

TESMT PARCEL 4 AREA 1 = 1286.23 SF
TESMT PARCEL 4 AREA 2 = 2776.34 SF
TESMT PARCEL 4 AREA 3 = 498.67 SF

TOTAL TESMT PARCEL 4 = 4561.24 SF

****
DRAINAGE ESMT - PAR 5 REQ'D PERM. EASM'T. DE113
****

PNT	OFFSET/ DIST		STATION/ BEARING	ALIGNMENT
DE10033	24.67	R	21+47.29	North Briar Ridge C/L
	22.50		N 0°52'54.7" E	
DE10034	24.78	R	21+69.79	North Briar Ridge C/L
	91.21		S 61°52'09.4" E	
DE10019	105.65	R	21+27.60	North Briar Ridge C/L
	43.18		N 89°27'46.7" W	
DE10018	62.47	R	21+27.57	North Briar Ridge C/L
	42.64		N 61°52'09.4" W	
DE10033	24.67	R	21+47.29	North Briar Ridge C/L

REQD EASMT = 1338.45 SF
REQD EASMT = 0.031 ACRES

****
TESMT AREA 1 - PAR 5 REQ'D TEMP. EASM'T. DE114
****

PNT	OFFSET/		STATION/	ALIGNMENT
DE10034	24.78	R	21+69.79	North Briar Ridge C/L
DE10035	24.84	R	21+81.03	North Briar Ridge C/L
DE10024	127.24	R	21+27.62	North Briar Ridge C/L
DE10019	105.65	R	21+27.60	North Briar Ridge C/L
DE10034	24.78	R	21+69.79	North Briar Ridge C/L

REQD EASMT AREA = 1033.48 SF

****
TESMT AREA 2 - PAR 5 REQ'D TEMP. EASM'T. DE115
****

PNT	OFFSET/		STATION/	ALIGNMENT
DE10028	24.56	R	21+27.54	North Briar Ridge C/L
DE10033	24.67	R	21+47.29	North Briar Ridge C/L
DE10018	62.47	R	21+27.57	North Briar Ridge C/L
DE10028	24.56	R	21+27.54	North Briar Ridge C/L

REQD EASMT AREA = 374.35 SF

TESMT PARCEL 5 AREA 1 = 1033.48 SF
TESMT PARCEL 5 AREA 2 = 374.35 SF

TOTAL TESMT PARCEL 5 = 1407.83 SF

****
DRAINAGE ESMT - PAR 7 REQ'D PERM. EASM'T. DE117
****

PNT	OFFSET/ DIST		STATION/ BEARING	ALIGNMENT
DE10040	24.92	L	21+95.35	North Briar Ridge C/L
	142.59		N 47°58'48.0" W	
DE10041	131.81	L	22+89.71	North Briar Ridge C/L
	20.00		N 42°01'12.0" E	
DE10042	118.58	L	23+04.71	North Briar Ridge C/L
	124.94		S 47°58'48.0" E	
DE10043	24.91	L	22+22.02	North Briar Ridge C/L
	26.67		S 0°35'57.7" W	
DE10040	24.92	L	21+95.35	North Briar Ridge C/L

REQD EASMT = 2675.33 SF
REQD EASMT = 0.061 ACRES

****
TESMT AREA 1 - PAR 7 REQ'D TEMP. EASM'T. DE118
****

PNT	OFFSET/		STATION/	ALIGNMENT
DE10043	24.91	L	22+22.02	North Briar Ridge C/L
DE10042	118.58	L	23+04.71	North Briar Ridge C/L
DE10044	111.96	L	23+12.20	North Briar Ridge C/L
DE10045	24.91	L	22+35.35	North Briar Ridge C/L
DE10043	24.91	L	22+22.02	North Briar Ridge C/L

REQD EASMT AREA = 1205.33 SF

****
TESMT AREA 2 - PAR 7 REQ'D TEMP. EASM'T. DE119
****

PNT	OFFSET/		STATION/	ALIGNMENT
DE10039	24.92	L	21+93.06	North Briar Ridge C/L
DE10038	135.36	L	22+85.70	North Briar Ridge C/L
DE10041	131.81	L	22+89.71	North Briar Ridge C/L
DE10040	24.92	L	21+95.35	North Briar Ridge C/L
DE10039	24.92	L	21+93.06	North Briar Ridge C/L

REQD EASMT AREA = 508.44 SF

TESMT PARCEL 7 AREA 1 = 1205.33 SF
TESMT PARCEL 7 AREA 2 = 508.44 SF

TOTAL TESMT PARCEL 7 = 1713.77 SF