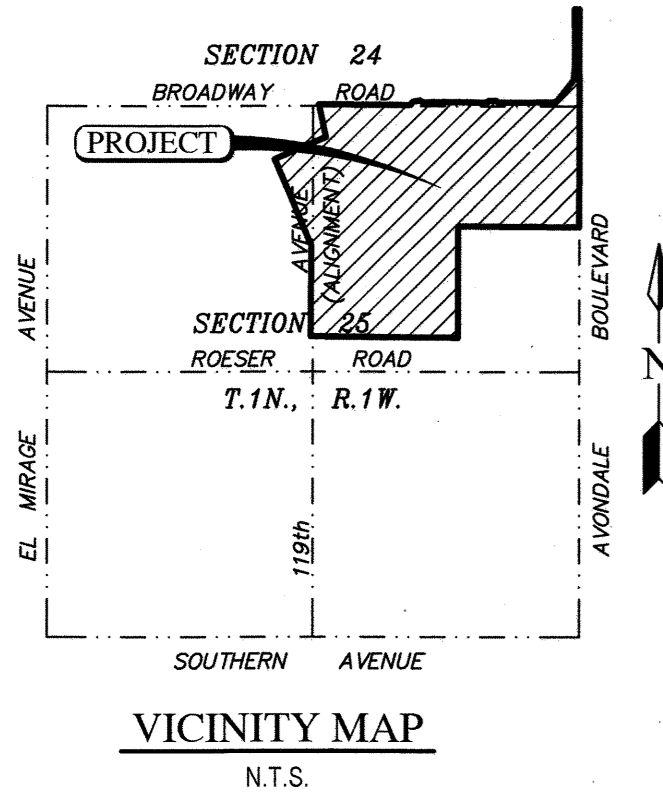
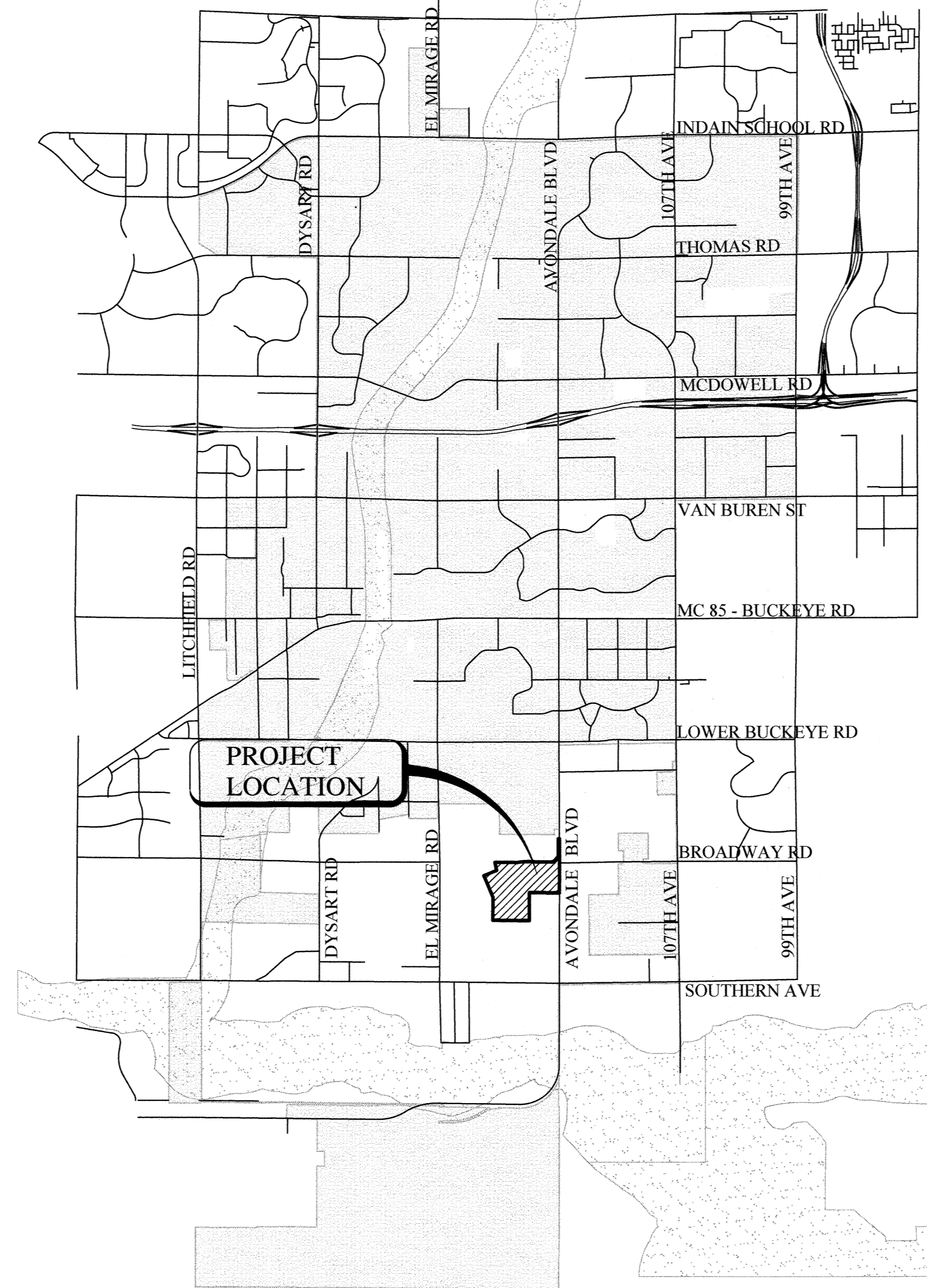


PAVING, STORM DRAIN, SIGNING AND MARKING PLAN AVONDALE BOULEVARD SOUTH, BROADWAY ROAD AND ALAMAR PARKWAY ALAMAR - PHASE 1

A PROPOSED SUBDIVISION OF A PORTION OF THE
SOUTHEAST QUARTER OF SECTION 24 AND NORTH HALF OF SECTION 25,
TOWNSHIP 1 NORTH, RANGE 1 WEST, OF THE GILA AND SALT RIVER MERIDIAN,
MARICOPA COUNTY, ARIZONA



QUANTITIES				
GRADING & DRAINAGE	ON-SITE	UNIT	OFF-SITE	UNIT
GRADING	N/A	SY	N/A	SY
STORM SEWER PIPE	N/A	LF	473	LF
STORM SEWER MANHOLE	N/A	EA	N/A	EA
UNDERGROUND RETENTION PIPE	N/A	LF	N/A	LF
DRYWELL	N/A	EA	N/A	EA
SPILLWAY	N/A	EA	N/A	EA
RIP RAP	N/A	CY	53	CY
CURB OPENING	N/A	LF	N/A	LF
BOX CULVERT	N/A	EA	N/A	EA
CATCH BASIN	N/A	EA	8	EA
HEADWALL	N/A	EA	2	EA
SCUPPER	N/A	EA	3	EA
IRRIGATION				
IRRIGATION PIPE	N/A	LF	N/A	LF
IRRIGATION MANHOLE/STRUCTURE	N/A	EA	N/A	EA
FLAT CONCRETE				
SIDEWALK	N/A	SF	80,022	SF
CURB AND GUTTER/SINGLE CURB/RIBBON	N/A	LF	16,279	LF
VALLEY GUTTER AND APRON	N/A	SF	5,773	SF
BUS BAY, RT. TURN LANE	N/A	SF	N/A	SF
RETURN TYPE DRIVEWAY	N/A	SF	1	SF
DRIVEWAY (NON-RETURN TYPE)	N/A	EA	N/A	EA
SIDEWALK RAMP	N/A	EA	28	EA
PAVING				
NEW CONC/ASPHALT PAVING	N/A	SY	38956	SY
ASPHALT/CONC OVERLAY	N/A	SY	N/A	SY
SLURRY SEAL/MICRO SEAL	N/A	SY	N/A	SY
UTILITY ADJUSTMENT (IN R/W STREET)	N/A	EA	34	EA
SURVEY MONUMENT	N/A	EA	10	EA
STREET SIGN	N/A	EA	54	EA
BARRICADE/GUARDRAIL	N/A	LF	493	LF
STRIPING (4" EQUIV.)	N/A	LF	39,180	LF
ASPHALT/CONC REPLACEMENT	N/A	SY	301	SY
STREET LIGHTS	N/A	EA	N/A	EA
TRAFFIC SIGNAL	N/A	EA	N/A	EA



OWNER/ DEVELOPER

BROOKFIELD LAKIN, LLC
14646 N. KIERLAND BOULEVARD,
SUITE 165
SCOTTSDALE, ARIZONA 85254
PHONE: (602) 903-7509
CONTACT: ROGER THEIS

BENCHMARK

NATIONAL GEODETIC SURVEY CONTROL
POINT H 395, PID DV0444, LOCATED AT
THE NORTHWEST CORNER OF EL MIRAGE ROAD AND
BROADWAY ROAD, HAVING AN ELEVATION OF 939.03',
NAVD 88 DATUM.

GEOTECHNICAL REPORT

GEOTECHNICAL INVESTIGATION, LAKIN
RANCH PHASE 1
PROTEX - THE PT Xperts, LLC
JOB NO. 7649, APRIL 16, 2018.

ENGINEER & SURVEYOR

WOOD, PATEL & ASSOCIATES, INC.
2051 WEST NORTHERN AVENUE
SUITE 100
PHOENIX, ARIZONA 85021
PHONE: (602) 335-8500
CONTACT: FRANK KOO, P.E.

BASIS OF BEARING

GEODETIC "NORTH" BASED ON: MARICOPA
COUNTY DEPARTMENT OF
TRANSPORTATION (MCDOT) GEODETIC
DENSIFICATION AND CADASTRAL SURVEY
(GDACS) WEBSITE
WWW.MCDOT.MARICOPA.GOV, UNDER THE SURVEY
INFORMATION LINK ON MARCH 1, 2017.
PROJECTION: CENTRAL ZONE, NAD 83,
(EPOCH 2010) DATUM: GRS-80
UNITS: INTERNATIONAL FEET
GEOID MODEL: GEOID 2012A

NATIONAL GEODETIC SURVEY CONTROL POINT: H 395
PID: DV0444
LATITUDE: 33°24'22.55252"N
LONGITUDE: 112°19'25.08998"W
ELLIPSOID HEIGHT: 255.899 (METERS)
DESCRIPTION: BRASS DISK IN CONCRETE SLEEVE
MODIFIED TO GROUND AT (GRID) N: 875587.531, E: 575808.124,
USING A SCALE FACTOR OF 1.0001224277.

HORIZONTAL ADJUSTMENT: NONE
HORIZONTAL ROTATION: NONE

CITY OF AVONDALE

MAYOR

KENNETH WEISE

VICE MAYOR

PAT DENNIS

CITY MANGER

CHARLES MONTOYA

COUNCIL MEMBERS

CURTIS NIELSON TINA CONDE
VERONICA MALONE BRIAN KILGORE
MIKE PINEDA

CITY CLERK

MARCELLA CARRILLO

SHEET INDEX:

- 1 - COVER
- 2 - NOTES AND LEGEND
- 3 - INDEX MAP
- 4-11 - PAVING PLAN (BROADWAY ROAD)
- 12-15 - PAVING PLAN (AVONDALE BLVD)
- 16-19 - PAVING PLAN (119TH AVENUE)
- 20 - STREET SECTIONS
- 21-22 - STORM DRAIN
- 23 - DETAILS
- 24 - SIGNING & MARKING INDEX MAP
- 25-28 - SIGNING & MARKING PLAN
- 29-30 - SIGN TABLE

TOTAL SHEETS - 30

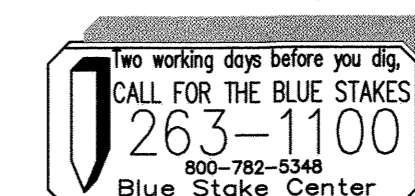
"AS-BUILT CERTIFICATION"

I HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION
SHOWN HEREON WAS OBTAINED UNDER MY DIRECT
SUPERVISION AND IS CORRECT AND COMPLETE TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR _____ SEAL _____

REGISTRATION NUMBER _____ DATE _____

COMPANY NAME:
ADDRESS:
CITY/STATE/ZIP CODE:
PHONE NUMBER:



NOTE:

ALL CONSTRUCTION SHALL BE IN ACCORDANCE
WITH THE MOST RECENT EDITION OF THE CITY
OF AVONDALE'S SUPPLEMENT TO THE M.A.G.
SPECIFICATIONS AND STANDARD DETAILS
CURRENTLY ON FILE AND AVAILABLE AT THE
CITY OF AVONDALE'S ENGINEERING DEPARTMENT
OR ONLINE AT THE CITY OF AVONDALE'S WEBSITE.

Utility Conflict Notification Block

THESE PLANS HAVE BEEN SUBMITTED TO THE FOLLOWING UTILITY COMPANIES.
WHERE THE WORK TO BE DONE CONFLICTS WITH ANY OF THESE UTILITIES, THE
CONFLICTS SHALL BE RESOLVED AS SPECIFIED IN THE SPECIAL NOTES AND/OR
AS OTHERWISE NOTED ON THESE PLANS. CONFLICTS ARISING DURING THE
COURSE OF CONSTRUCTION FROM UNFORESEEN CIRCUMSTANCES SHALL BE
REPORTED TO THE INTERESTED UTILITY COMPANY AND BE RESOLVED BY THEM
AND THE DESIGN ENGINEER.

SALT RIVER POWER DISTRICT	_____	9/1/18
	COMPANY REPRESENTATIVE	DATE
ARIZONA PUBLIC SERVICE	_____	9/1/18
	COMPANY REPRESENTATIVE	DATE
CENTURY LINK	KATHY HADRICH	9/1/18
	COMPANY REPRESENTATIVE	DATE
COX COMMUNICATIONS	CORY DAY	9/1/18
	COMPANY REPRESENTATIVE	DATE
SOUTHWEST GAS	SCOTT SUASO	9/1/18
	COMPANY REPRESENTATIVE	DATE
SALT RIVER IRRIGATION DISTRICT	_____	9/1/18
	COMPANY REPRESENTATIVE	DATE
ROOSEVELT IRRIGATION DISTRICT	KEN CRAIG	9/1/18
	COMPANY REPRESENTATIVE	DATE
EL PASO NATURAL GAS	STEVE WEATHERHEAD	9/1/18
	COMPANY REPRESENTATIVE	DATE

STORM WATER CERTIFICATION

- ALL DRAINAGE DESIGN WILL COMPLY WITH THE DRAINAGE DESIGN
MANUAL FOR MARICOPA COUNTY, ARIZONA, VOLUMES I & II, JANUARY 28,
1996, AS AMENDED OR UPDATED.
- THE DEVELOPMENT WILL PROVIDE ADEQUATE RETENTION FOR THE
100-YEAR 2-HOUR STORM. THIS INCLUDES ONSITE AND ADJACENT
HALF STREET RUNOFF.
- IN ALL CASES THE HALF STREET FLOW FROM THE 100-YEAR, 2-HOUR
STORM WILL BE CONTAINED WITHIN THE PUBLIC RIGHT OF WAY.
- THE COLLECTION SYSTEM FOR THE 10-YEAR 2-HOUR STORM HAS BEEN
DESIGNED SO THAT ALL ARTERIAL AND MAJOR COLLECTOR STREETS
SHALL MAINTAIN ONE DRY LANE IN EACH DIRECTION.
- FINISHED FLOOR ELEVATIONS MUST BE MINIMUM OF 14-INCHES ABOVE
THE OUT FALL TOP OF CURB ELEVATION, OR 12-INCHES ABOVE THE
COMPUTED 100-YEAR 2-HOUR WATER SURFACE ELEVATION WHICH EVER
IS GREATER.
- ALL STORM WATER RETENTION SHALL BE DRAINED WITHIN 36 HOURS. IF
BASINS DO NOT DRAIN WITHIN 36 HOURS, DEVELOPER/OWNER SHALL
ENACT MEASURE TO CORRECT.

Frank Koo 2/1/2019
SIGNATURE DATE

AREA MAP

NOT TO SCALE

APPROVALS

Mark J. Smith 2-7-19
CITY ENGINEERING DEPARTMENT DATE

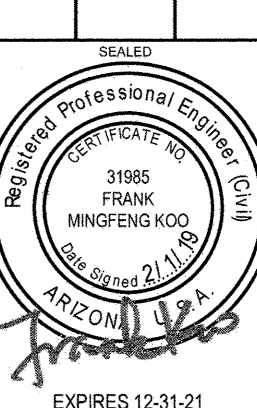
THE CITY APPROVES THESE PLANS FOR CONCEPT ONLY AND ACCEPTS
NO LIABILITY FOR ERRORS OR OMISSIONS.

11465 W. CIVIC CENTER DRIVE
AVONDALE, AZ 85323
(623) 333-4200

WOOD/PATEL
MISSION: CLIENT SERVICE®
(602) 335-8500
WWW.WOODPATEL.COM



BROOKFIELD LAKIN, LLC
PROJECT NAME: ALAMAR - PHASE 1
DATE: 2/1/2019
PAVING, STORM DRAIN, SIGNING AND MARKING PLAN
AVONDALE BLVD, BROADWAY RD, AND ALAMAR PARKWAY



PLAN DATE: 2/1/2019

LATEST REVISION DATE

SHEET NUMBER: 1 OF 30

PROJECT NUMBER: 174612.04

ENG 18-0208

ENGINEER'S NOTES

- MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION INCLUDING LATEST REVISION AND CURRENT SUPPLEMENTALS THEREOF PER THE LOCAL TOWN OR CITY) ARE INCORPORATED INTO THIS PLAN IN THEIR ENTIRETY.
- ALL WORK REQUIRED TO COMPLETE THE CONSTRUCTION COVERED BY THIS PLAN SHALL BE IN ACCORDANCE WITH THE M.A.G. STANDARD SPECIFICATIONS AND DETAILS AND CURRENT SUPPLEMENTS THEREOF PER THE LOCAL CITY OR TOWN UNLESS SPECIFIED OTHERWISE IN THESE PLANS OR ELSEWHERE IN THE CONTRACT DOCUMENTS. CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH ALL REQUIRED STANDARD SPECIFICATIONS, DETAILS AND SUPPLEMENTS PRIOR TO BIDDING THE WORK FOR THE CONSTRUCTION COVERED BY THIS PLAN.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL METHODS, SEQUENCING, AND SAFETY CONCERNS ASSOCIATED WITH THIS PROJECT DURING CONSTRUCTION, UNLESS SPECIFICALLY ADDRESSED OTHERWISE IN THIS PLAN OR ELSEWHERE IN THE CONTRACT.
- THE CONTRACTOR IS TO COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS APPLICABLE TO THE CONSTRUCTION COVERED BY THIS PLAN.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS REQUIRED TO COMPLETE ALL WORK COVERED BY THIS PLAN.
- THE QUANTITIES AND SITE CONDITIONS DEPICTED IN THESE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY AND ARE SUBJECT TO ERROR AND OMISSION. CONTRACTORS SHALL SATISFY THEMSELVES AS TO ACTUAL QUANTITIES AND SITE CONDITIONS PRIOR TO BIDDING THE WORK FOR THE CONSTRUCTION COVERED BY THIS PLAN.
- A REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES AND UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES AND/OR FACILITIES CAUSED DURING THEIR CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL CALL 48 HOURS IN ADVANCE FOR BLUE STAKE (1-800-STAKE-IT) PRIOR TO ANY EXCAVATION.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION OF CONSTRUCTION AFFECTING UTILITIES AND THE COORDINATION OF ANY NECESSARY UTILITY RELOCATION WORK.
- ALL PAVING, GRADING, EXCAVATION, TRENCHING, PIPE BEDDING, CUT FILL AND BACKFILL SHALL COMPLY WITH THE RECOMMENDATIONS SET FORTH IN THE SOILS (GEOTECHNICAL) REPORT FOR THIS PROJECT IN ADDITION TO THE REFERENCED REQUIRED SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL BE AWARE THAT CERTAIN UTILITIES REQUIRE PROPER ATTENTION AND CAREFUL PLANNING DURING SITE CONSTRUCTION. PLEASE NOTE THAT UTILITIES ON THESE PLANS MAY NOT EXHIBIT THE FULL PROTECTIVE COVER REQUIRED DURING THE SUBGRADE PREPARATION PHASE OF THE CONSTRUCTION. IN SUCH INSTANCES, THE CONTRACTOR SHALL PROVIDE ADDITIONAL PROTECTION (SUCH AS RAMPING) OR INCREASED PIPE STRENGTH TO PROVIDE THE NECESSARY PROTECTION REQUIRED TO PREVENT DAMAGE DURING THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL HOLD THE ENGINEER HARMLESS IN ALL CASES FOR DAMAGES TO UTILITIES WHERE INADEQUATE PROTECTIVE MEASURES OCCUR.
- THE CONTRACTOR IS TO VERIFY THE LOCATION AND THE ELEVATIONS OF ALL EXISTING UTILITIES AT POINTS OF TIE-IN PRIOR TO COMMENCING ANY NEW CONSTRUCTION. SHOULD ANY LOCATION OR ELEVATION DIFFER FROM THAT SHOWN ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE OWNER'S AGENT.
- CONTRACTOR TO VERIFY AND COORDINATE ALL DIMENSIONS AND SITE LAYOUT WITH ARCHITECT'S FINAL SITE PLAN AND FINAL BUILDING DIMENSIONS BEFORE STARTING WORK. REPORT DISCREPANCIES TO OWNER'S AGENT.
- COORDINATION BETWEEN ALL PARTIES IS ESSENTIAL PART OF CONTRACT.
- CONTRACTOR IS RESPONSIBLE FOR PROJECT AND SITE CONDITIONS, AND TO WORK WITH WEATHER CONDITIONS AS THE PROJECT SITE MAY BE LOCATED IN A FLOOD PRONE AREA AND SUBJECT TO FLOODING AND ITS HAZARDS.
- THE CONTRACTOR IS TO VERIFY THE LOCATION, ELEVATION, CONDITION, AND PAVEMENT CROSS-SLOPE OF ALL EXISTING SURFACES AT POINTS OF TIE-IN AND MATCHING, PRIOR TO COMMENCEMENT OF GRADING, PAVING, CURB AND GUTTER, OR OTHER SURFACE CONSTRUCTION. SHOULD EXISTING LOCATIONS, ELEVATIONS, CONDITION, OR PAVEMENT CROSS-SLOPE DIFFER FROM THAT SHOWN ON THESE PLANS, RESULTING IN THE DESIGN INTENT REFLECTED ON THESE PLANS NOT ABLE TO BE CONSTRUCTED, THE CONTRACTOR SHALL NOTIFY THE OWNER'S AGENT IMMEDIATELY FOR DIRECTION ON HOW TO PROCEED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR ALL COSTS ASSOCIATED WITH CORRECTIVE ACTION IF THESE PROCEDURES ARE NOT FOLLOWED.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE UTILITY CROSSINGS AT CULVERT CROSSINGS BEFORE STARTING WORK ON CULVERT. COORDINATE WITH OWNER REPRESENTATIVE. VERIFY UTILITY LINES AND/OR CONDUITS ARE IN PLACE BEFORE STARTING CULVERT WORK.
- CONSTRUCT RETENTION BASIN AS SHOWN. CONTRACTOR TO SCARIFY BOTTOM OF BASIN TWO FEET DEEP AND NOT ALLOW COMPACTION OVER 80%.
- THIS PROJECT REQUIRES A REGULAR ONGOING MAINTENANCE PROGRAM FOR THE DESIGNED DRAINAGE SYSTEM(S) TO PRESERVE THE DESIGN INTEGRITY AND THE ABILITY TO PERFORM ITS OPERATIONAL INTENT. FAILURE TO PROVIDE MAINTENANCE WILL JEOPARDIZE THE DRAINAGE SYSTEM(S) PERFORMANCE AND MAY LEAD TO ITS INABILITY TO PERFORM PROPERLY AND/OR CAUSE DAMAGE ELSEWHERE IN THE PROJECT.

- SEWER LINES DESIGNED IN PROFILE AND PUBLIC WATER LINES ARE REQUIRED TO BE AS-BUILT AND THE INSTALLATION AND TESTING WITNESSED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH ARIZONA ADMINISTRATIVE CODES R18-9-E301 "4.01 GENERAL PERMIT: SEWAGE COLLECTIONS SYSTEMS" AND R18-5-507 AND 508 "APPROVAL OF CONSTRUCTION" AND "RECORD DRAWINGS", RESPECTIVELY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY OWNER 72 HOURS IN ADVANCE WHEN THOSE SYSTEMS ARE READY TO BE WITNESSED.
- THE WORK PRODUCT PRESENTED IS BELIEVED TO BE COMPLIANT WITH THE INTENT OF THE CURRENT AMERICANS DISABILITIES ACT (ADA) REQUIREMENTS AS INTERPRETED BY THE REVIEWING AGENCY(S). IF CONSTRUCTION OF THE PROJECT IS DELAYED, THIS WORK PRODUCT SHOULD BE UPDATED TO ACCOUNT FOR ANY RELEVANT ADA UPDATES BEFORE CONSTRUCTION BEGINS.
- FINISH FLOOR (FF) REFERS TO EITHER FLOOR/SLAB ELEVATION OR TOP OF BASEMENT SLAB. LF ELEVATIONS ON THE GRADING AND DRAINAGE PLANS FOR RESIDENTIAL UNITS REFLECT SLAB ON GRADE CONDITIONS AND CANNOT BE LOWERED WITHOUT AGENCY APPROVAL IN LOCATIONS WHERE 'SPECIAL FLOOD HAZARD AREAS' EXIST. IN NON-FLOOD HAZARD LOCATIONS, TO ENSURE THAT ADEQUATE RESIDENTIAL LOT DRAINAGE CAN BE ACHIEVED, A PROFESSIONAL ENGINEER SHOULD BE CONSULTED IF THE LF FOR THE SLAB IS PROPOSED TO BE LOWERED, OR IF A BASEMENT IS TO BE CONSTRUCTED.
- CONTRACTOR TO INSTALL IRRIGATION SLEEVES PRIOR TO PAVEMENT AND CONCRETE WORK. REFER TO IRRIGATION PLAN BY HINES, INC. FOR SLEEVE INFORMATION.

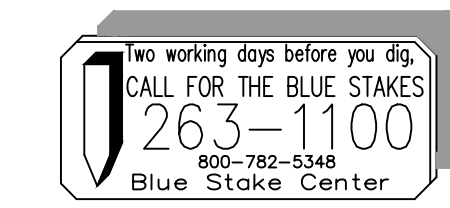
CITY OF AVONDALE

SIGNING AND STRIPING NOTES

- THE CITY OF AVONDALE ENGINEERING DEPARTMENT SHALL BE NOTIFIED THREE (3) BUSINESS DAYS PRIOR TO STARTING ANY SIGNING OR STRIPING WORK.
- UNLESS OTHERWISE SPECIFIED, ALL PAVEMENT MARKING AND TRAFFIC CONTROL SIGNING INSTALLATIONS AND REMOVALS SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE CITY OF AVONDALE "CONSTRUCTION SPECIFICATIONS" SECTION XI. ITEMS NOT COVERED UNDER THE CITY SPECIFICATIONS SHALL CONFORM TO THE ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) STANDARD DRAWINGS, DETAILS AND SPECIFICATIONS OR THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) LATEST EDITION, AS APPLICABLE. SIGN REQUIREMENTS, GUIDELINES, AND WARRANTIES SHALL BE IN ACCORDANCE WITH THE MUTCD MOST RECENT EDITION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF THE PERMANENT PAVEMENT MARKINGS FOLLOWING CONTROL POINTS THAT HAVE BEEN SET NO MORE THAN 50 FEET APART ALONG THE LINES TO BE STRIPED. PAVEMENT MARKING DIMENSIONS ARE TO THE CENTER OF THE STRIPE FOR SINGLE LINE STRIPING, AND TO THE CENTER OF THE SPACE BETWEEN THE TWO LINES FOR DOUBLE LINE STRIPING. WHERE CURB AND GUTTER ARE PRESENT, DIMENSIONS ARE TO THE BACK OF THE CURB. THE CONTRACTOR SHALL SCHEDULE INSPECTION OF THE PAVEMENT MARKING LAYOUT AT LEAST THREE (3) BUSINESS DAYS PRIOR TO LAYOUT AND INSTALLATION OF PERMANENT PAVEMENT MARKING. INSPECTION SHALL TAKE PLACE DURING DAYTIME AND ON A BUSINESS DAY PRIOR TO INSTALLATION OF PERMANENT PAVEMENT MARKINGS.
- PAVEMENT MARKING DRAWINGS ARE SCHEMATIC ONLY AND NOT TO SCALE. THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS, NOTES, DETAILS AND STANDARDS WHEN INSTALLING PAVEMENT STRIPING, MARKINGS AND MARKERS.
- TEMPORARY TRAFFIC CONTROL SHALL CONFORM TO THE MOST RECENT EDITION OF THE CITY OF PHOENIX "TRAFFIC BARRICADE MANUAL," THE "MUTCD," AND/OR AS DIRECTED BY THE CITY OF AVONDALE.
- UNLESS OTHERWISE DIRECTED, ALL FINAL LOCATION LANE STRIPING INCLUDING CROSSWALKS AND STOP BARS SHALL BE THERMOPLASTIC MATERIAL APPLIED AT A MINIMUM THICKNESS OF 60 MIL. ALL PAVEMENT SYMBOLS, ARROWS, AND LETTERING SHALL BE THERMOPLASTIC, TYPE I (PERMANENT) PREFORMED PAVEMENT MARKINGS. TEMPORARY PAVEMENT MARKINGS SHALL BE REFLECTORIZED TRAFFIC PAINT. TEMPORARY STRIPING OF A HALF STREET ROADWAY SHALL BE THERMOPLASTIC.
- ALL SIGNS SHALL CONFORM TO THE MUTCD AND SHALL BE MADE FROM .080 INCH THICK ALUMINUM. SIGN POSTS AND EXTENSIONS SHALL BE GALVANIZED SQUARE PERFORATED STEEL TUBING PER CITY STANDARDS. HEIGHT REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE MUTCD.
- ALL TRAFFIC CONTROL SIGN FACES SHALL BE CONSTRUCTED OF DIAMOND GRADE REFLECTIVE SHEETING SUCH AS 3M STANDARD, UNLESS OTHERWISE NOTED.
- ALL SIGNS SHALL HAVE A MINIMUM CLEARANCE FROM THE EDGE OF THE SIGN TO THE FACE OF THE CURB OF AT LEAST TWO (2) FEET. IF NO CURB EXISTS, THE MINIMUM CLEARANCE SHALL BE AT LEAST TEN (10) FEET FROM THE EDGE OF THE PAVEMENT. ALL SIGNS SHALL BE PLACED SO AS TO NOT INTERFERE WITH PEDESTRIAN MOVEMENT.
- ANY TRAFFIC CONTROL SIGNAGE, INCLUDING STREET NAME SIGNS, WHICH MAY BE LOCATED WITHIN TEN (10) FEET OF AN EXISTING STREET LIGHT POLE, MAY BE PROPERLY MOUNTED TO THE POLE WITH APPROVAL FROM THE CITY. SIGN LOCATIONS AND OFFSETS MAY BE ADJUSTED BY THE CITY TO IMPROVE VISIBILITY.
- ALL CONCRETE MEDIAN CURB NOSES SHALL BE PAINTED WITH YELLOW REFLECTIVE SAFETY PAINT FROM THE FRONT OF THE BULLNOSE BACK TEN (10) FEET.
- RAISED PAVEMENT MARKERS (RPMS) SHALL BE INSTALLED ON ARTERIAL ROADWAYS WITH EXISTING RPMS OR ROADWAYS WITHOUT FULL STREET LIGHTING. ALL RAISED PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH ADOT STANDARD DRAWINGS 4-M-2.02, 4-M-2.03.1, 4-M- 2.03.2, AND 4-M-2.04. TWO-WAY TYPE M RAISED PAVEMENT MARKERS SHALL BE INSTALLED ADJACENT TO FIRE HYDRANTS PER CITY OF AVONDALE STANDARDS.
- ANY EXISTING SIGNAGE THAT IS REQUIRED TO BE RELOCATED BY THE CONTRACTOR SHALL BE REMOVED, PROTECTED, AND STORED FOR REINSTALLATION BY THE CONTRACTOR. DAMAGED SIGNAGE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY EXISTING SIGNS REQUIRED TO BE PERMANENTLY REMOVED BY THE CONTRACTOR SHALL BE SALVAGED FOR RETURN TO THE CITY.
- THE CONTRACTOR SHALL REMOVE ALL EXISTING PAVEMENT MARKINGS AND STRIPING IN CONFLICT WITH THE FINAL STRIPING PLAN BY ULTRA HIGH-PRESSURE WATER (36,000 PSI PER MAG SPECIFICATIONS). ALL REMOVAL METHODS SHALL BE DONE IN CONFORMANCE WITH EPA REQUIREMENTS. IF THE REMOVAL OF STRIPING CAUSES A DEPRESSION OF 1/8 INCH OR GREATER IN THE PAVEMENT SURFACE, THE CONTRACTOR SHALL FILL AND SLURRY SEAL THE AREA PER MAG STANDARD SPECIFICATION 713 & 715, TYPE II.
- THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE CITY BY POWER BROOM, STREET SWEEPING, AIR JET BLOWING, AND/OR WATER JET/TRUCK PRIOR TO THE PLACEMENT OF ALL PAVEMENT MARKINGS. THE ROAD PAVEMENT SURFACE SHALL BE ABSOLUTELY DRY. THE AIR AND PAVEMENT TEMPERATURES SHALL NOT BE LESS THAN 55° F AND 61° F FOR THE PLACEMENT OF THERMOPLASTIC MARKING AND TYPE I MARKING TAPE, RESPECTIVELY.
- STREET NAME SIGNS LOCATED AT ALL INTERSECTIONS SHALL HAVE BLOCK NUMBERS. BLOCK NUMBERS SHALL BE ASSIGNED BY THE CITY'S BUILDING DIVISION. BLOCK NUMBERS SHALL BE INSTALLED PER CITY SPECIFICATIONS.

LEGEND

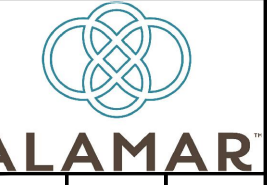
	BNDRY	PROJECT BOUNDARY
	C/L	CENTER LINE
	S/L	SECTION LINE
	R/W	RIGHT OF WAY
		EASEMENT LINE
		PROPOSED CONTOUR w/ ELEVATION
		EXISTING CONTOUR w/ ELEVATION
		POTABLE WATER PIPE & VALVE
		SANITARY SEWER PIPE & MANHOLE
		STORM DRAIN PIPE
	S.V.T.	SIGHT VISIBILITY TRIANGLE
	P.U.E.	PUBLIC UTILITY EASEMENT
	A.E.	ACCESS EASEMENT
	W.E.	WATER EASEMENT
	E.E.	ELECTRICAL EASEMENT
	V.N.A.E.	VEHICULAR NON-ACCESS EASEMENT
	W.P.E.	WATER PIPE EASEMENT
	S.E.	SEWER EASEMENT
	T.D.E.	TEMPORARY DRAINAGE EASEMENT
	S.W.E.	SIDEWALK EASEMENT
	F.S.L.	FRONT SETBACK LINE
	R.S.L.	REAR SETBACK LINE
	S.S.L.	SIDE SETBACK LINE
	B.P.	BOLLARD PROTECTION
	R/W	RIGHT-OF-WAY
	FF	FINISHED FLOOR ELEVATION
	PAD	PAD ELEVATION
	B.C.H.H.	BRASS CAP IN HANDHOLE
		HIGH POINT
		LOW POINT
		SURVEY MONUMENT
		FLOW ARROW
		GRADE BREAK
	OHU	EXISTING OVERHEAD UTILITY
		EXISTING SEWER MANHOLE
		FIRE HYDRANT
		SANITARY SEWER MANHOLE
		WATER VALVE
	S	PROPOSED SEWER LINE
	W	PROPOSED WATER LINE
	COMM	PROPOSED COMMUNICATION LINE
		PROPOSED SCUPPER WITH RIPRAP
		CATCH BASIN
		STORM DRAIN PIPE
		HEADWALL
		DRYWELL
		RIP-RAP
		STREET LIGHT



NOTE:
ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE CITY OF AVONDALE'S SUPPLEMENT TO THE M.A.G. SPECIFICATIONS AND STANDARD DETAILS CURRENTLY ON FILE AND AVAILABLE AT THE CITY OF AVONDALE'S ENGINEERING DEPARTMENT OR ONLINE AT THE CITY OF AVONDALE'S WEBSITE.

SCALE (HORIZ.)	N/A
SCALE (VERT.)	N/A

WOOD/PATEL
MISSION: CLIENT SERVICE®
(602) 335-8500
WWW.WOODPATEL.COM






ALAMAR - PHASE 1
PAVING, STORM DRAIN, SIGNING AND MARKING PLAN
AVONDALE BLVD, BROADWAY RD, AND ALAMAR PARKWAY

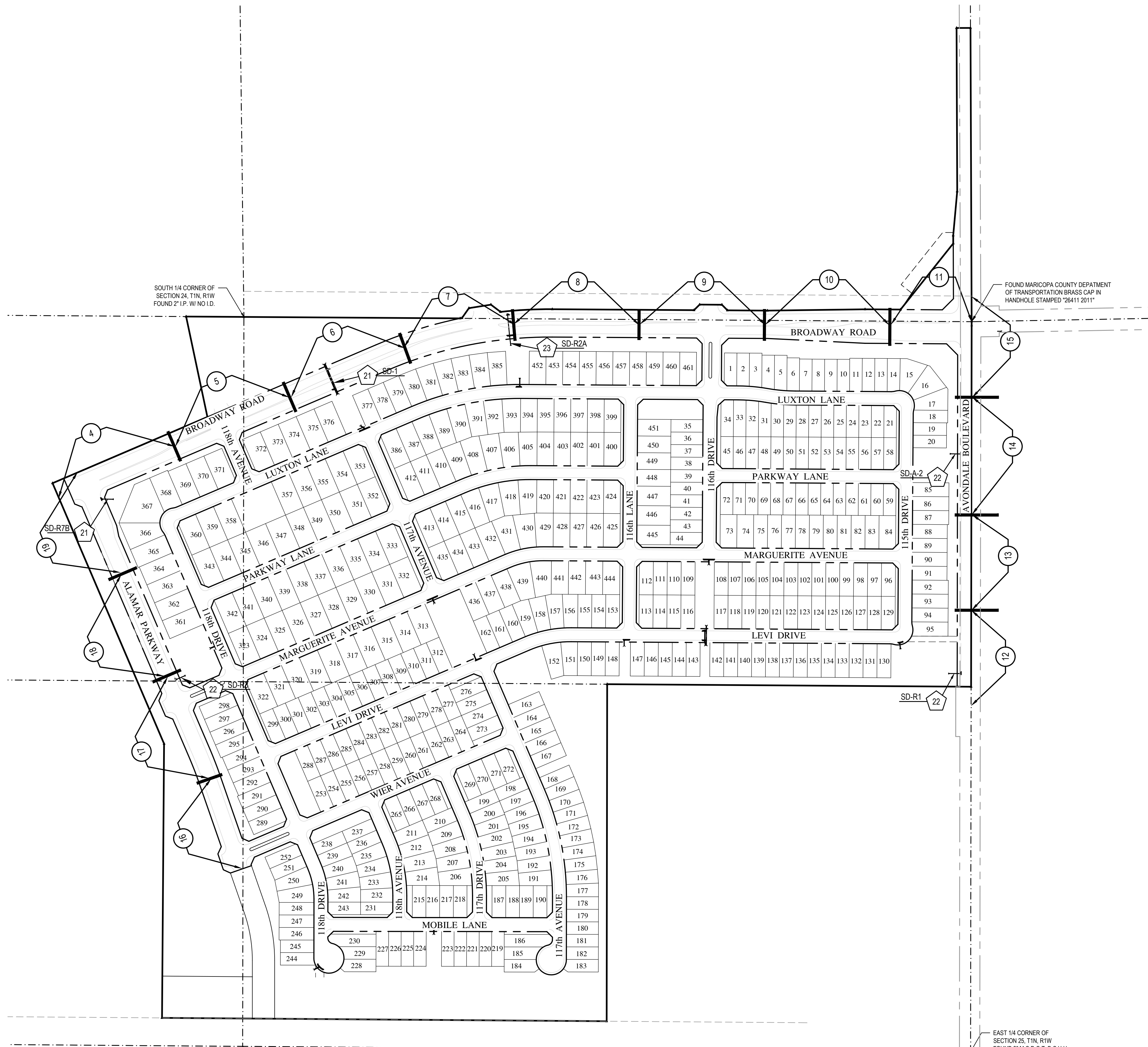


DATE	2/11/2019
LATEST REVISION DATE	
SHEET NUMBER	2 OF 30
PROJECT NUMBER	174612.04

ENG 18-0208

SHEET INDEX LEGEND

-  PAVING PLAN & PROFILE SHEET NUMBER
-  STORM DRAIN PLAN & PROFILE SHEET NUMBER
-  PAVING PLAN & PROFILE MATCHLINE

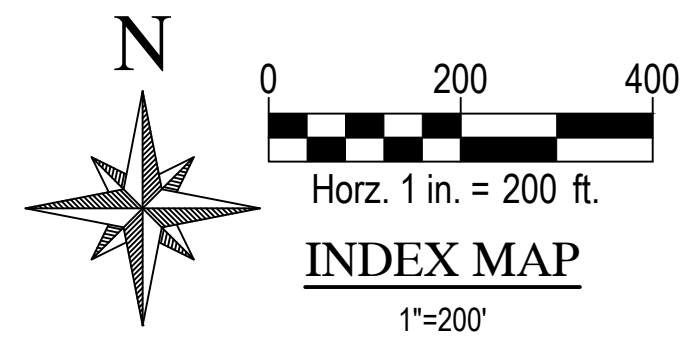


SOUTH 1/4 CORNER OF SECTION 24, T1N, R1W FOUND 2" I.P. W/ NO I.D.

FOUND MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION BRASS CAP IN HANDHOLE STAMPED "20411 2011"

EAST 1/4 CORNER OF SECTION 25, T1N, R1W FOUND 3" M.C.D.O.T. B.C.H.H. STAMPED T1N R1W S25 S30 RLS 33310

CENTER OF SECTION 25, T1N, R1W NOTHING FOUND NOTHING SET



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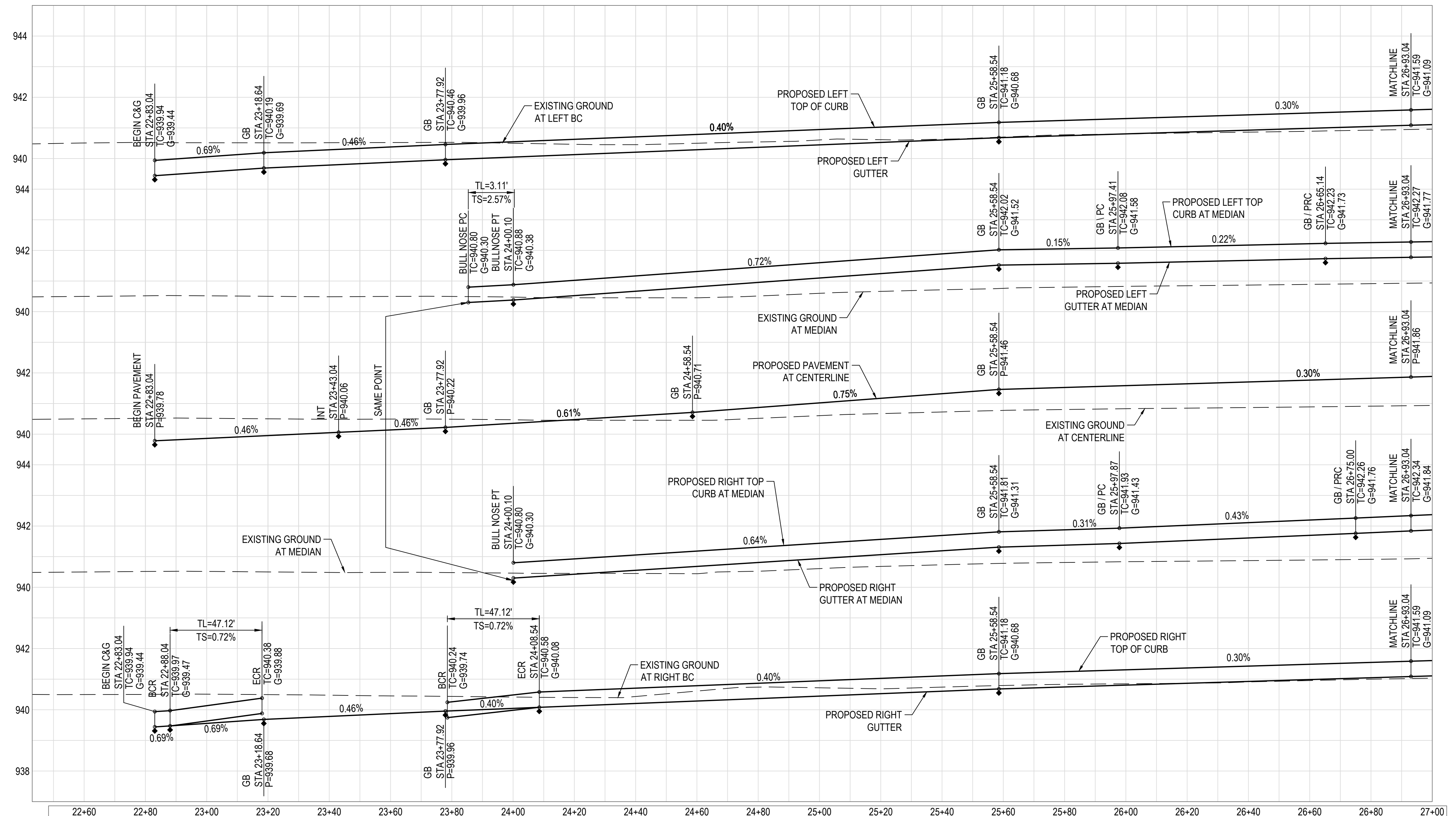
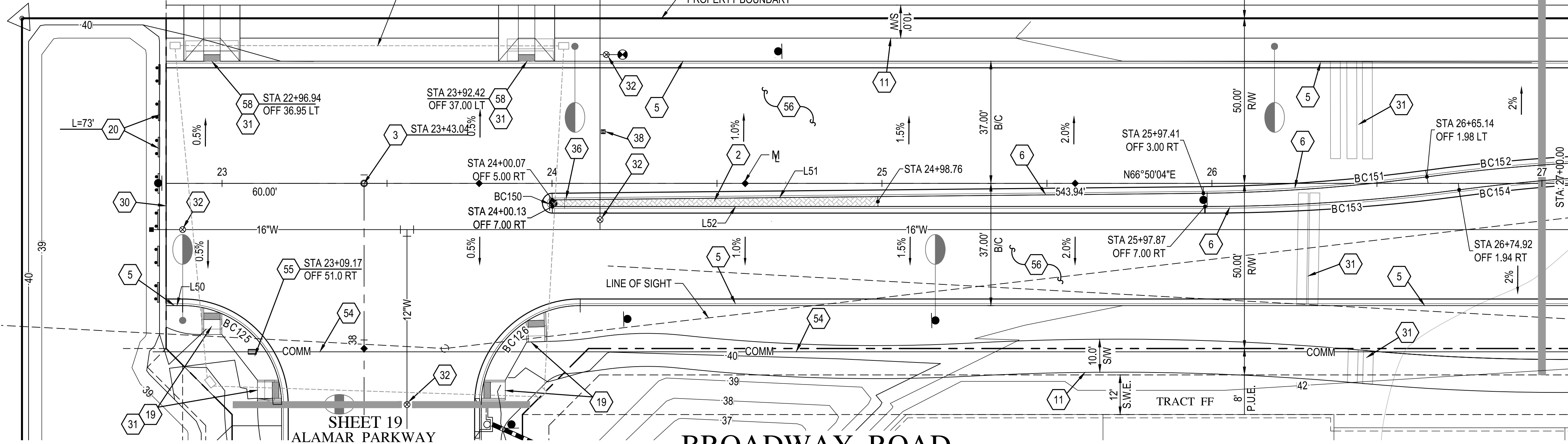
DEVELOPER: BROOKFIELD LAKIN, LLC
 PROJECT NAME: ALAMAR - PHASE 1
 PLAN TYPE: PAVING, STORM DRAIN, SIGNING AND MARKING PLAN
 AVONDALE BLVD, BROADWAY RD, AND ALAMAR PARKWAY



PLAN DATE: 2/11/2019
 LATEST REVISION DATE:
 SHEET NUMBER: 3 OF 30
 PROJECT NUMBER: 174612.04

ENG 18-0208

EMPIRE WEST TITLE COMPANY LLC
500-67-002B



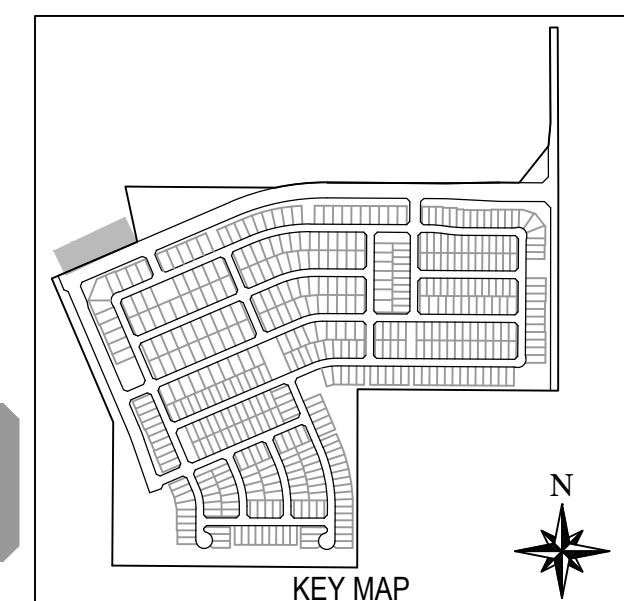
- PAVING NOTES**
- 2 INSTALL MEDIAN CONCRETE PAVERS PER C.O.A. STANDARD DETAIL A1221. USE BELGARD HOLLAND PAVES 4"x8"x80mm, RED COLOR AND HERRINGBONE PATTERN.
 - 3 INSTALL SURVEY MARKER PER M.A.G. STANDARD DETAIL 120, TYPE 'A'.
 - 5 CONSTRUCT 6" VERTICAL CURB & GUTTER PER M.A.G. STANDARD DETAIL 220-1, TYPE 'A'.
 - 6 CONSTRUCT 6" VERTICAL CURB & GUTTER W/ DEPRESSED LIP PER MODIFIED M.A.G. STANDARD DETAIL 220-1, TYPE 'A'.
 - 10 CONSTRUCT 5" CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
 - 11 CONSTRUCT 10" CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
 - 19 CONSTRUCT SIDEWALK RAMP PER C.O.A. STANDARD DETAIL A1235.2.
 - 20 INSTALL BARRICADE PER M.A.G. STANDARD DETAIL 130, TYPE 'B'. LENGTH OF BARRICADE PER PLAN.
 - 30 CONSTRUCT ASPHALT PAVEMENT EDGE PER M.A.G. STANDARD DETAIL 201, TYPE 'A'.
 - 31 INSTALL IRRIGATION SLEEVES. SEE IRRIGATION PLAN.
 - 32 ADJUST FRAME & COVER PER C.O.A. STANDARD DETAIL A1391.
 - 36 CONSTRUCT MEDIAN ISLAND PER C.O.A. STANDARD DETAIL A1220.
 - 38 INSTALL FIRE HYDRANT MARKER PER C.O.A. STANDARD DETAIL A1609.
 - 54 INSTALL 2.3" SCHEDULE 80 PVC CONDUIT WITH PULL TAPE FOR SECONDARY COMMUNICATIONS NETWORK PER C.O.A. STANDARD DETAIL A1720-2 TRENCH DETAIL.
 - 55 INSTALL PULL BOX PER C.O.A. STANDARD DETAIL A1717.
 - 56 CONSTRUCT STREET SECTION PER M.A.G. SPECIFICATIONS SECTION 310 AND 321 AND C.O.A. STANDARD DETAIL A1103. SEE ROADWAY PAVEMENT SECTION DETAIL ON SHEET 23.
 - 58 CONSTRUCT MID-BLOCK SIDEWALK RAMP PER M.A.G. STANDARD DETAIL 238-1.

BACK OF CURB CURVE TABLE

CURVE	DELTA	RADIUS	ARC	TANGENT	CHORD
BC125	90°00'00"	30.00'	47.12'	30.00	42.43
BC126	90°00'00"	30.00'	47.12'	30.00	42.43
BC150	178°16'44"	1.00'	3.11'	66.57	2.00
BC151	6°57'13"	560.00'	67.96'	34.02	67.92
BC152	7°40'46"	560.00'	75.06'	37.58	75.00
BC153	7°30'40"	589.42'	77.27'	38.69	77.21
BC154	6°20'00"	590.58'	65.28'	32.67	65.25

BACK OF CURB LINE TABLE

LINE	BEARING	DISTANCE
L50	N66°50'04"E	5.00'
L51	S66°15'14"W	197.35'
L52	N66°50'04"E	197.78'
L53	S66°50'04"W	97.32'



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ALAMAR

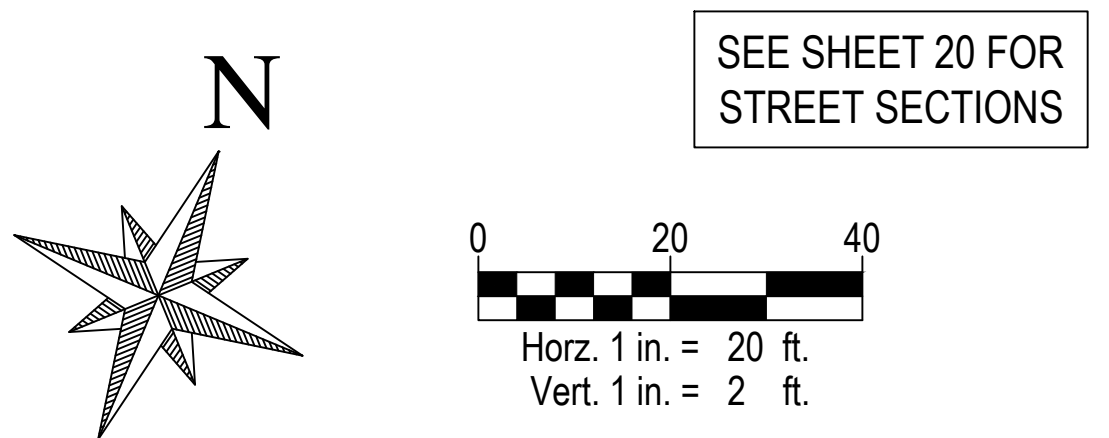
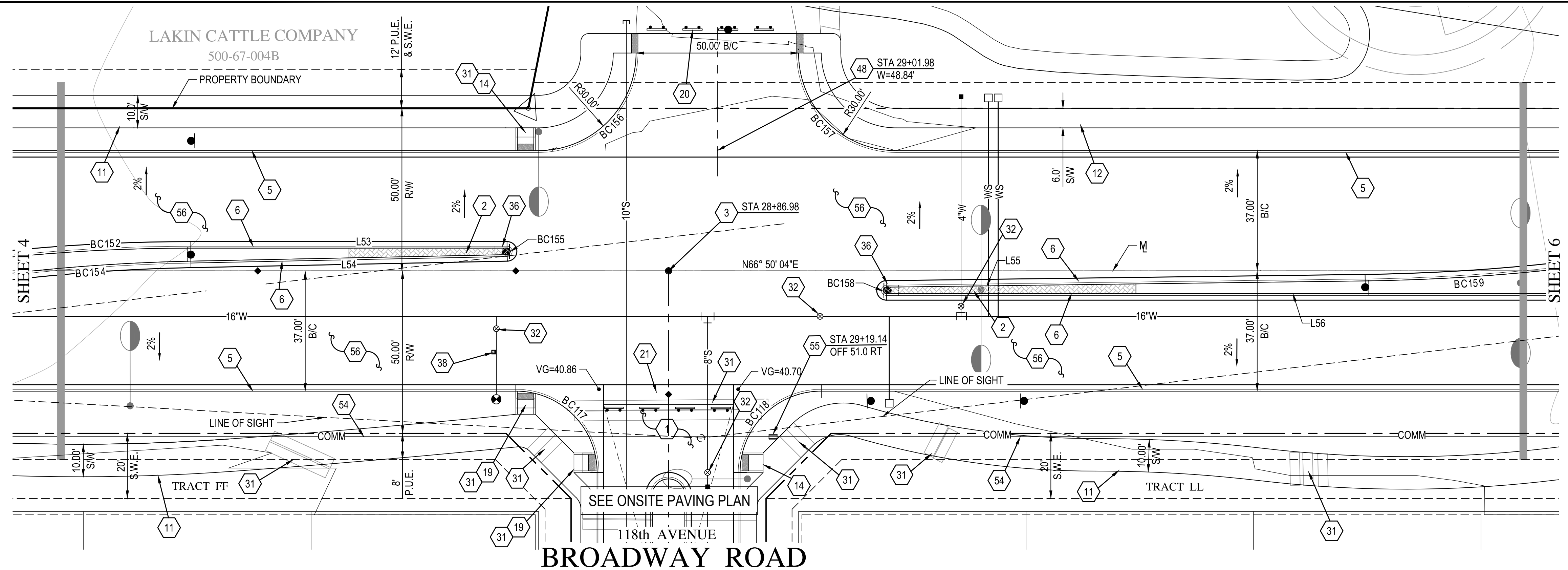
BROOKFIELD LAKIN, LLC
ALAMAR - PHASE 1
PAVING, STORM DRAIN, SIGNING AND MARKING PLAN
AVONDALE BLVD, BROADWAY RD, AND ALAMAR PARKWAY

PROFESSIONAL ENGINEER
FRANK MINGFENG WOO
31985
MINGFENG WOO
AVONDALE, AZ 85001
EXPIRES 12/31/21

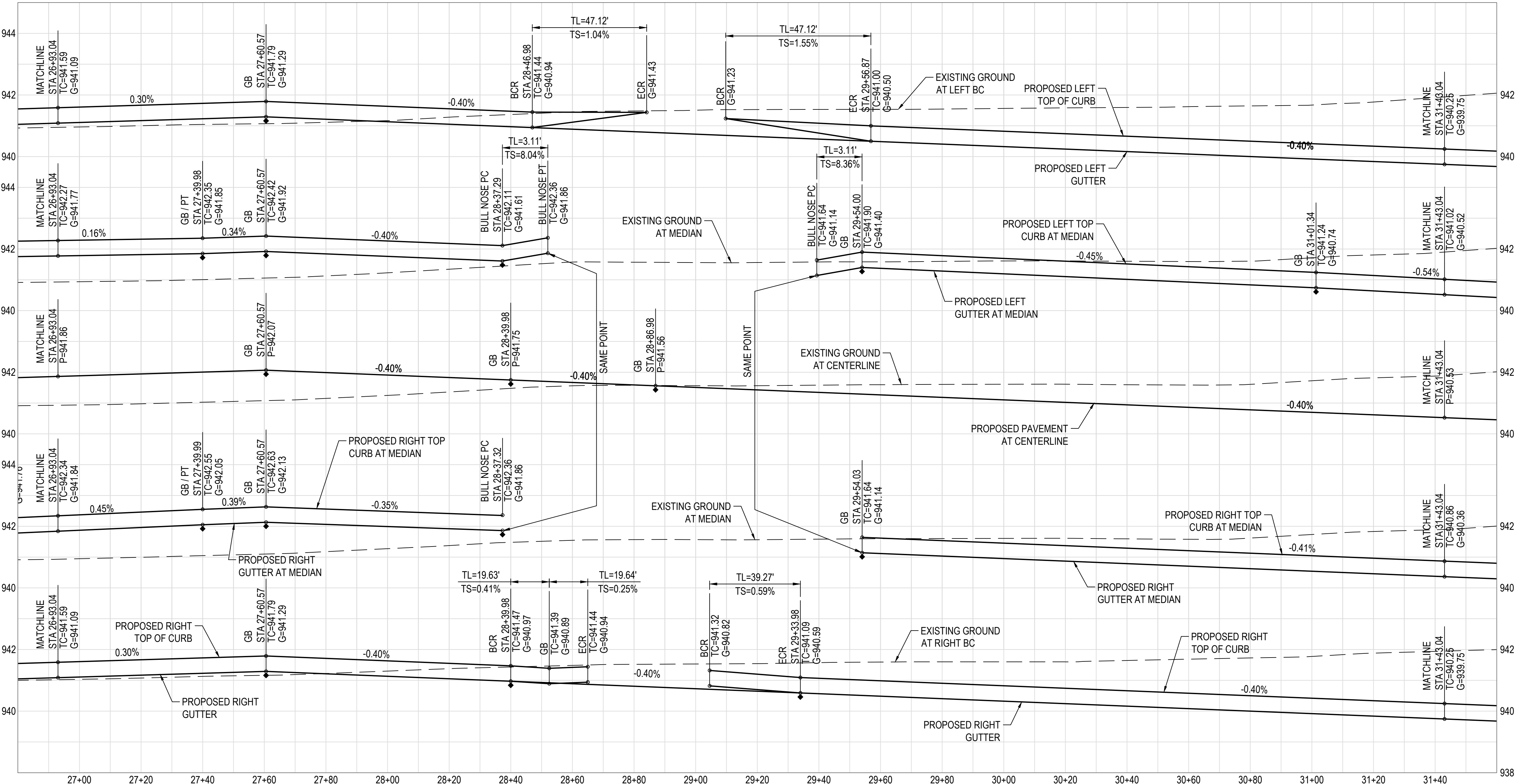
DATE: 2/1/2019
LATEST REVISION DATE:

SHEET NUMBER: 4 OF 30
PROJECT NUMBER: 174612.04

ENG 18-0208

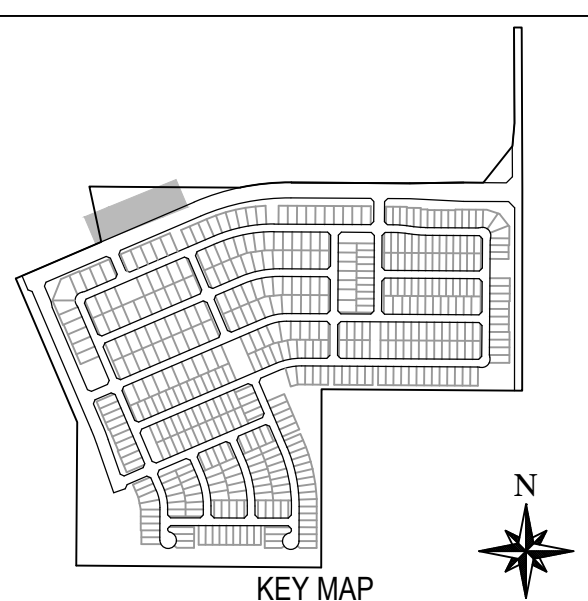


- PAVING NOTES**
- 2 INSTALL MEDIAN CONCRETE PAVERS PER C.O.A. STANDARD DETAIL A1221. USE BELGARD HOLLAND PAVER 4"x8"x80mm, RED COLOR AND HERRINGBONE PATTERN.
 - 3 INSTALL SURVEY MARKER PER M.A.G. STANDARD DETAIL 120, TYPE 'A'.
 - 5 CONSTRUCT 6" VERTICAL CURB & GUTTER PER M.A.G. STANDARD DETAIL 220-1, TYPE 'A'.
 - 6 CONSTRUCT 6" VERTICAL CURB & GUTTER W/ DEPRESSED LIP PER MODIFIED M.A.G. STANDARD DETAIL 220-1, TYPE 'A'.
 - 10 CONSTRUCT 5" CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
 - 11 CONSTRUCT 10" CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
 - 12 CONSTRUCT 6" CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
 - 14 CONSTRUCT SIDEWALK RAMP PER M.A.G. STANDARD DETAIL 236-2.
 - 19 CONSTRUCT SIDEWALK RAMP PER C.O.A. STANDARD DETAIL A1235.2.
 - 20 INSTALL BARRICADE PER M.A.G. STANDARD DETAIL 130, TYPE 'B'. LENGTH OF BARRICADE PER PLAN.
 - 21 CONSTRUCT 6" VALLEY GUTTER AND APRON PER M.A.G. STANDARD DETAIL 240.
 - 31 INSTALL IRRIGATION SLEEVES, SEE IRRIGATION PLAN.
 - 32 ADJUST FRAME & COVER PER C.O.A. STANDARD DETAIL A1391.
 - 36 CONSTRUCT MEDIAN ISLAND PER C.O.A. STANDARD DETAIL A1220.
 - 38 INSTALL FIRE HYDRANT MARKER PER C.O.A. STANDARD DETAIL A1609.
 - 48 CONSTRUCT COMMERCIAL DRIVEWAY PER C.O.A. STANDARD DETAIL A1251-2. WIDTH AND CURB RETURN RADIUS PER PLAN.
 - 54 INSTALL 2-3" SCHEDULE 80 PVC CONDUIT WITH PULL TAPE FOR SECONDARY COMMUNICATIONS NETWORK PER C.O.A. STANDARD DETAIL A1720-2 TRENCH DETAIL.
 - 55 INSTALL PULL BOX PER C.O.A. STANDARD DETAIL A1717.
 - 56 CONSTRUCT STREET SECTION PER M.A.G. SPECIFICATIONS SECTION 310 AND 321 AND C.O.A. STANDARD DETAIL A1103. SEE ROADWAY PAVEMENT SECTION DETAIL ON SHEET 23.



BACK OF CURB CURVE TABLE					
CURVE	DELTA	RADIUS	ARC TANGENT	CHORD	
BC117	90°00'00"	25.00'	39.27'	25.00	35.36
BC118	90°00'00"	25.00'	39.27'	25.00	35.36
BC152	7°40'46"	560.00'	75.06'	37.58	75.00
BC154	6°20'00"	590.58'	65.28'	32.67	65.25
BC155	178°17'01"	1.00'	3.11'	66.75	2.00
BC156	90°00'00"	30.00'	47.12'	30.00	42.43
BC157	90°00'00"	30.00'	47.12'	30.00	42.43
BC158	178°16'47"	1.00'	3.11'	66.60	2.00
BC159	6°35'01"	620.58'	71.31'	35.69	71.27

BACK OF CURB LINE TABLE		
LINE	BEARING	DISTANCE
L53	S66°50'04"W	97.32'
L54	N65°39'26"E	97.36'
L55	S66°05'17"W	147.35'
L56	N66°50'04"E	549.47'



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Blue Stake Center

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SCALE (HORIZ.) 1" = 20'
SCALE (VERT.) 1" = 2'

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ALAMAR

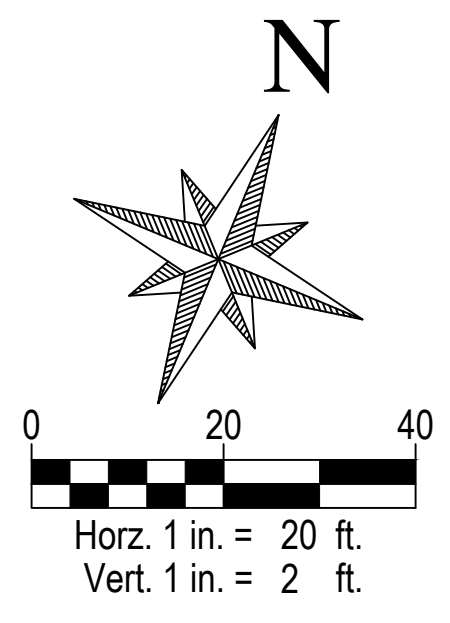
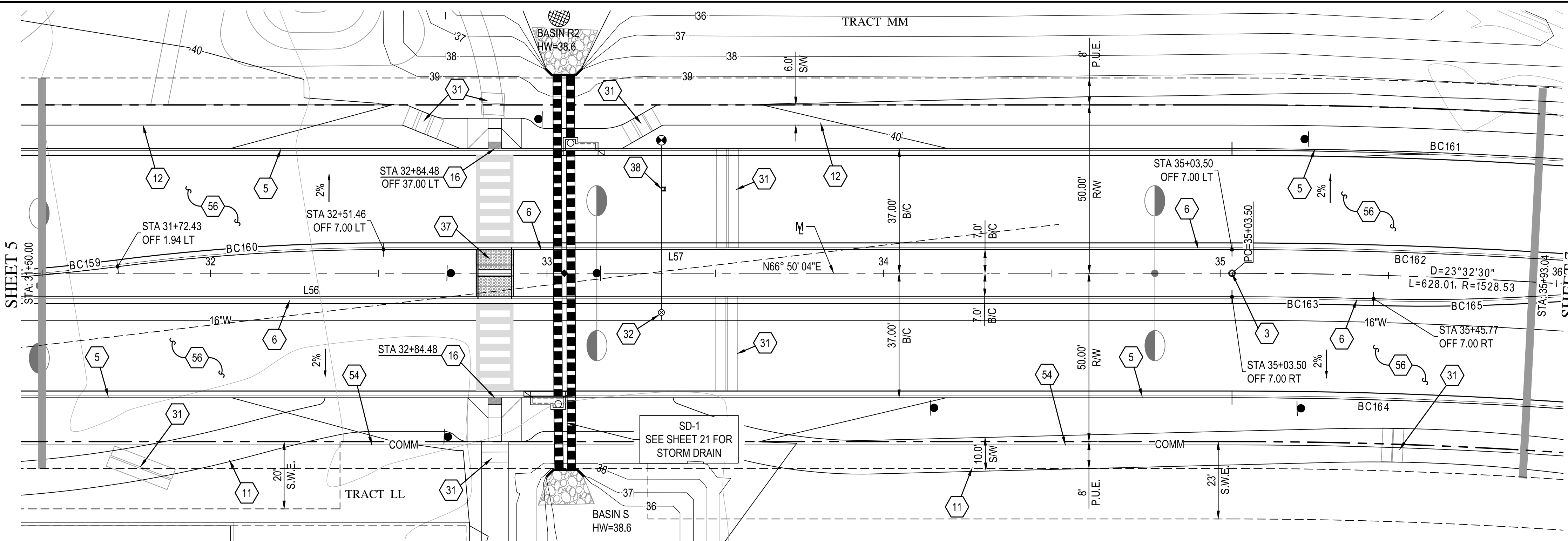
BROOKFIELD LAKIN, LLC
ALAMAR - PHASE 1
PAVING, STORM DRAIN, SIGNING AND MARKING PLAN
AVONDALE BLVD, BROADWAY RD, AND ALAMAR PARKWAY

PROFESSIONAL ENGINEER
FRANK MINGRENGO
31985
AVONDALE, AZ 85023
EXPIRES 12-31-21

DATE: 2/11/2019
LATEST REVISION DATE:

SHEET NUMBER
5 OF 30
PROJECT NUMBER
174612.04

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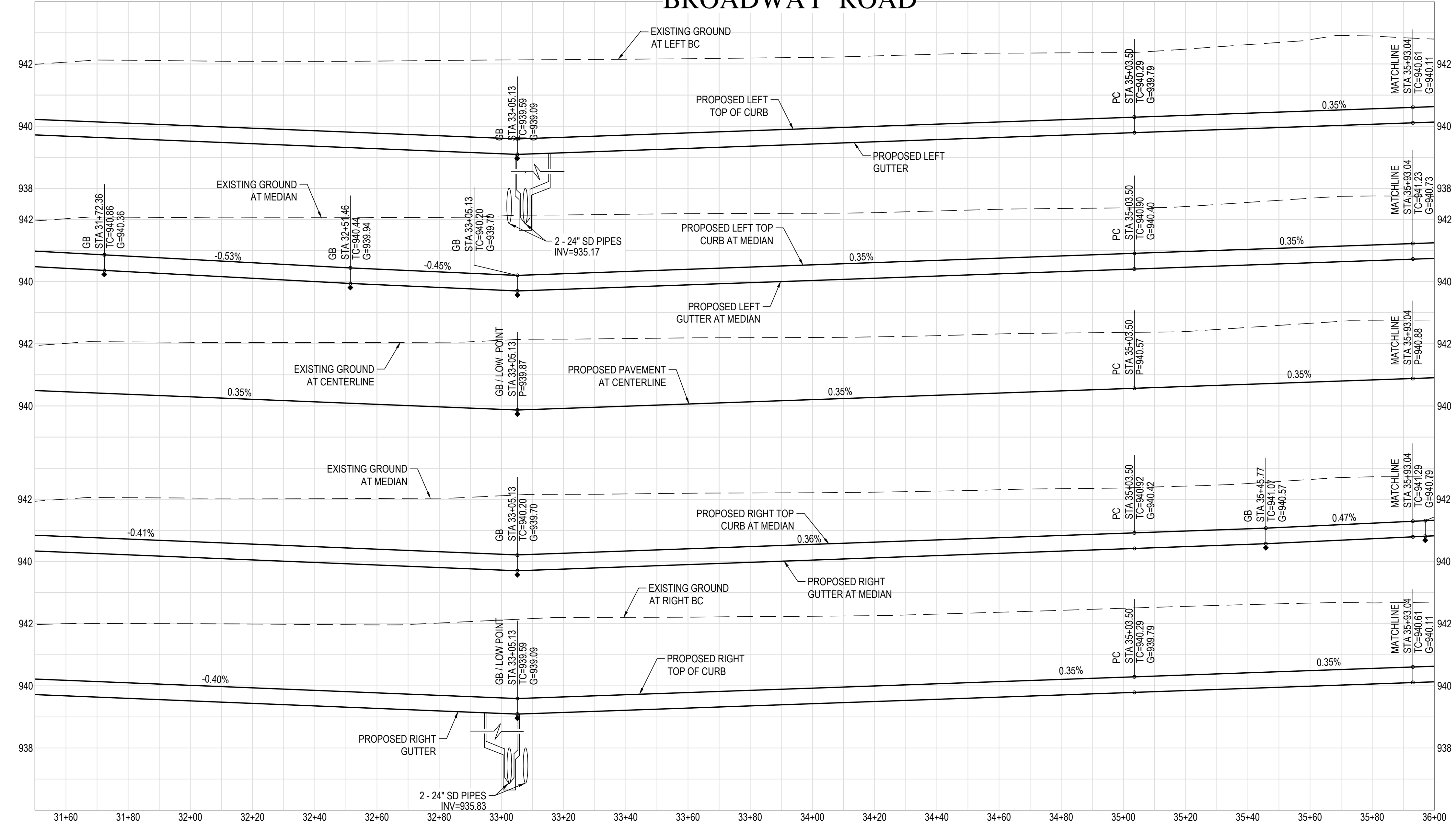


SEE SHEET 20 FOR STREET SECTIONS

PAVING NOTES

- 3 INSTALL SURVEY MARKER PER M.A.G. STANDARD DETAIL 120, TYPE 'A'.
- 5 CONSTRUCT 6" VERTICAL CURB & GUTTER PER M.A.G. STANDARD DETAIL 220-1, TYPE 'A'.
- 6 CONSTRUCT 6" VERTICAL CURB & GUTTER W/ DEPRESSED LIP PER MODIFIED M.A.G. STANDARD DETAIL 220-1, TYPE 'A'.
- 10 CONSTRUCT 5' CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
- 11 CONSTRUCT 10' CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
- 12 CONSTRUCT 6" CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
- 16 CONSTRUCT MID-BLOCK SIDEWALK RAMP PER C.O.A. STANDARD DETAIL A1235-5.
- 31 INSTALL IRRIGATION SLEEVES, SEE IRRIGATION PLAN.
- 32 ADJUST FRAME & COVER PER C.O.A. STANDARD DETAIL A1391.
- 37 CONSTRUCT PEDESTRIAN REFUGE PER C.O.A. STANDARD DETAIL A1225.
- 38 INSTALL FIRE HYDRANT MARKER PER C.O.A. STANDARD DETAIL A1609.
- 54 INSTALL 2-3" SCHEDULE 80 PVC CONDUIT WITH PULL TAPE FOR SECONDARY COMMUNICATIONS NETWORK PER C.O.A. STANDARD DETAIL A1720-2 TRENCH DETAIL.
- 56 CONSTRUCT STREET SECTION PER M.A.G. SPECIFICATIONS SECTION 310 AND 321 AND C.O.A. STANDARD DETAIL A1103. SEE ROADWAY PAVEMENT SECTION DETAIL ON SHEET 23.

BROADWAY ROAD

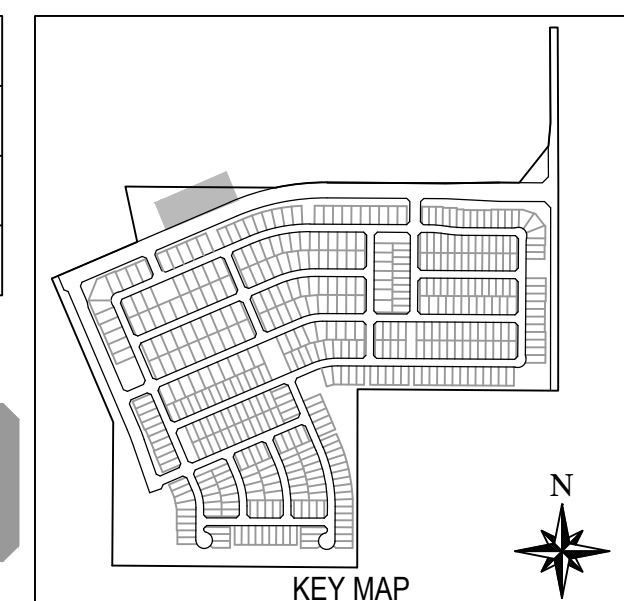


BACK OF CURB CURVE TABLE

CURVE	DELTA	RADIUS	ARC	TANGENT	CHORD
BC159	6°35'01"	620.58'	71.31'	35.69	71.27
BC160	7°19'48"	619.42'	79.24'	39.68	79.19
BC161	12°15'48"	1565.53'	335.08'	168.18	334.44
BC162	12°43'25"	1535.53'	340.99'	171.20	340.29
BC163	1°35'04"	1521.53'	42.08'	21.04	42.07
BC164	23°32'26"	1491.53'	612.81'	310.79	608.51
BC165	5°11'52"	564.42'	51.20'	25.62	51.19

BACK OF CURB LINE TABLE

LINE	BEARING	DISTANCE
L56	N66°50'04"E	549.47'
L57	S66°50'04"W	252.04'



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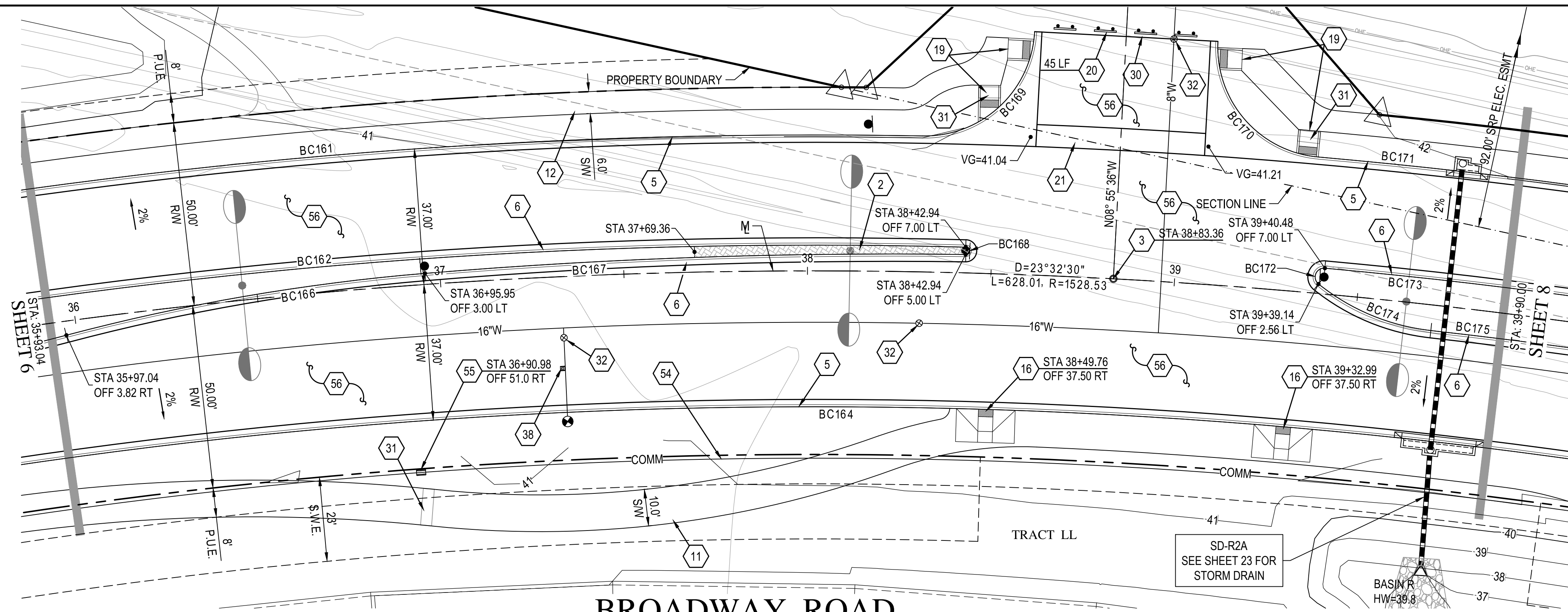
ALAMAR

BROOKFIELD LAKIN, LLC
ALAMAR - PHASE 1
PAVING, STORM DRAIN, SIGNING AND MARKING PLAN
AVONDALE BLVD, BROADWAY RD, AND ALAMAR PARKWAY

DATE: 2/1/2019
LATEST REVISION DATE: _____
SHEET NUMBER: 6 OF 30
PROJECT NUMBER: 174612.04

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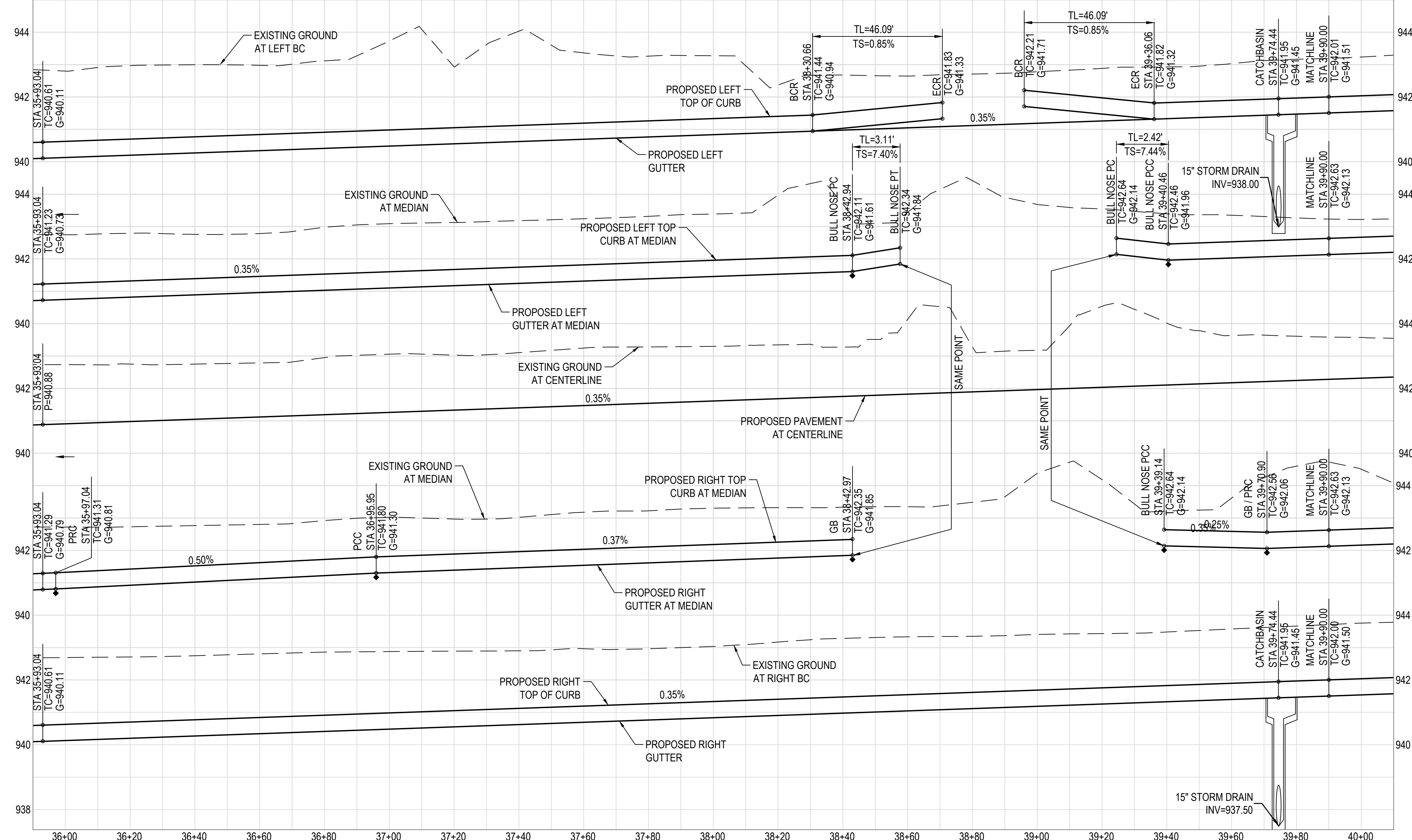


SEE SHEET 20 FOR STREET SECTIONS

PAVING NOTES

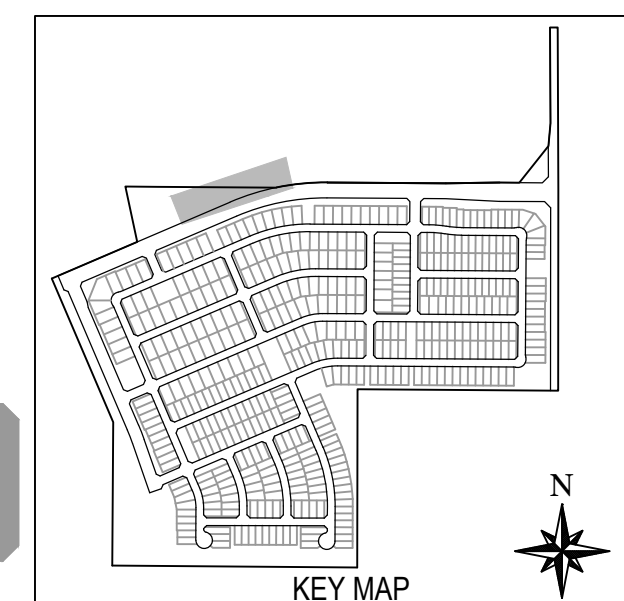
- 2 INSTALL MEDIAN CONCRETE PAVERS PER C.O.A. STANDARD DETAIL A1221. USE BELGARD HOLLAND PAVER 4"x8"x80mm, RED COLOR AND HERRINGBONE PATTERN.
- 3 INSTALL SURVEY MARKER PER M.A.G. STANDARD DETAIL 120, TYPE "A".
- 5 CONSTRUCT 6" VERTICAL CURB & GUTTER PER M.A.G. STANDARD DETAIL 220-1, TYPE "A".
- 6 CONSTRUCT 6" VERTICAL CURB & GUTTER W/ DEPRESSED LIP PER MODIFIED M.A.G. STANDARD DETAIL 220-1, TYPE "A".
- 10 CONSTRUCT 5" CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
- 11 CONSTRUCT 10' CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
- 12 CONSTRUCT 6" CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
- 16 CONSTRUCT MID-BLOCK SIDEWALK RAMP PER C.O.A. STANDARD DETAIL A1235-5.
- 19 CONSTRUCT SIDEWALK RAMP PER C.O.A. STANDARD DETAIL A1235-2.
- 20 INSTALL BARRICADE PER M.A.G. STANDARD DETAIL 130, TYPE "B". LENGTH OF BARRICADE PER PLAN.
- 21 CONSTRUCT 6" VALLEY GUTTER AND APRON PER M.A.G. STANDARD DETAIL 240.
- 30 CONSTRUCT ASPHALT PAVEMENT EDGE PER M.A.G. STANDARD DETAIL 201, TYPE "A".
- 31 INSTALL IRRIGATION SLEEVES, SEE IRRIGATION PLAN.
- 32 ADJUST FRAME & COVER PER C.O.A. STANDARD DETAIL A1391.
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- 55 INSTALL PULL BOX PER C.O.A. STANDARD DETAIL A1717.
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BROADWAY ROAD



BACK OF CURB CURVE TABLE				
CURVE	DELTA	RADIUS	ARC TANGENT	CHORD
BC161	12°15'48"	1565.53'	335.08'	334.44
BC162	12°43'25"	1535.53'	340.99'	340.29
BC164	23°32'26"	1491.53'	612.81'	608.51
BC166	10°03'10"	565.58'	99.23'	99.11
BC167	5°30'31"	1533.23'	147.41'	73.76
BC168	178°17'05"	1.00'	3.11'	2.00
BC169	88°01'28"	30.00'	46.09'	28.98
BC170	88°01'28"	30.00'	46.09'	28.98
BC171	7°19'35"	1565.53'	200.18'	200.05
BC172	146°39'24"	2.42'	6.19'	4.64
BC173	7°09'39"	1535.53'	191.91'	96.08
BC174	32°22'05"	59.42'	33.57'	33.12
BC175	6°01'14"	1521.53'	159.88'	159.81

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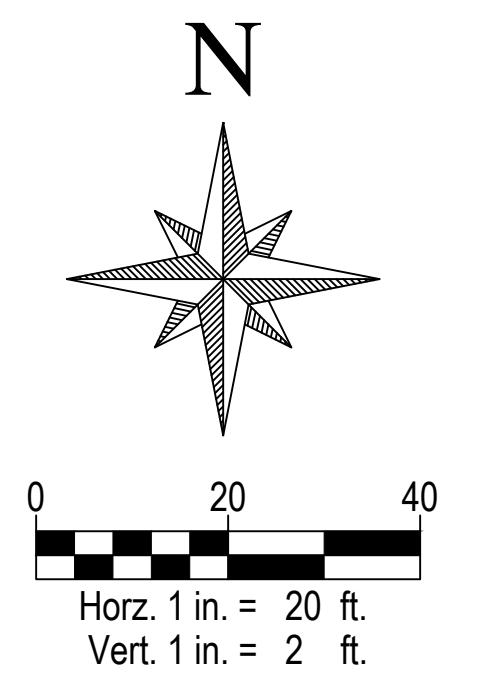
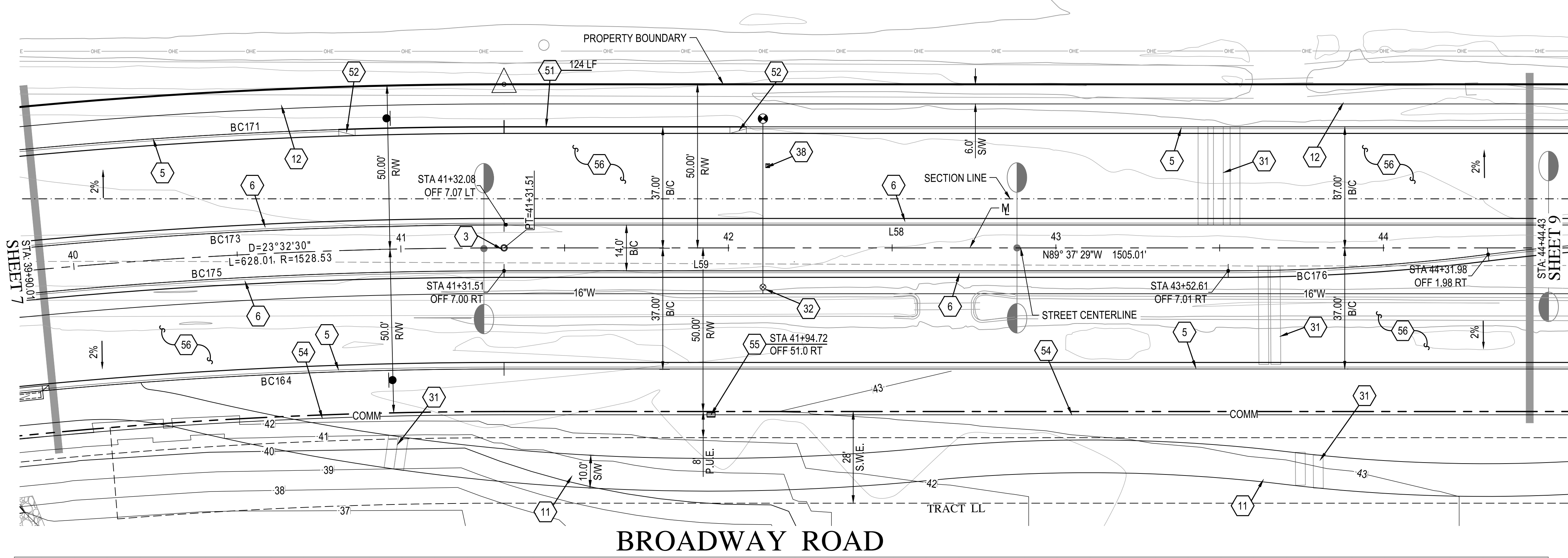
PROFESSIONAL ENGINEER
FRANK MINGENHOOD
31985
AVONDALE, AZ 85001
EXPIRES 12-31-21

2/1/2019

SHEET NUMBER
7 OF 30

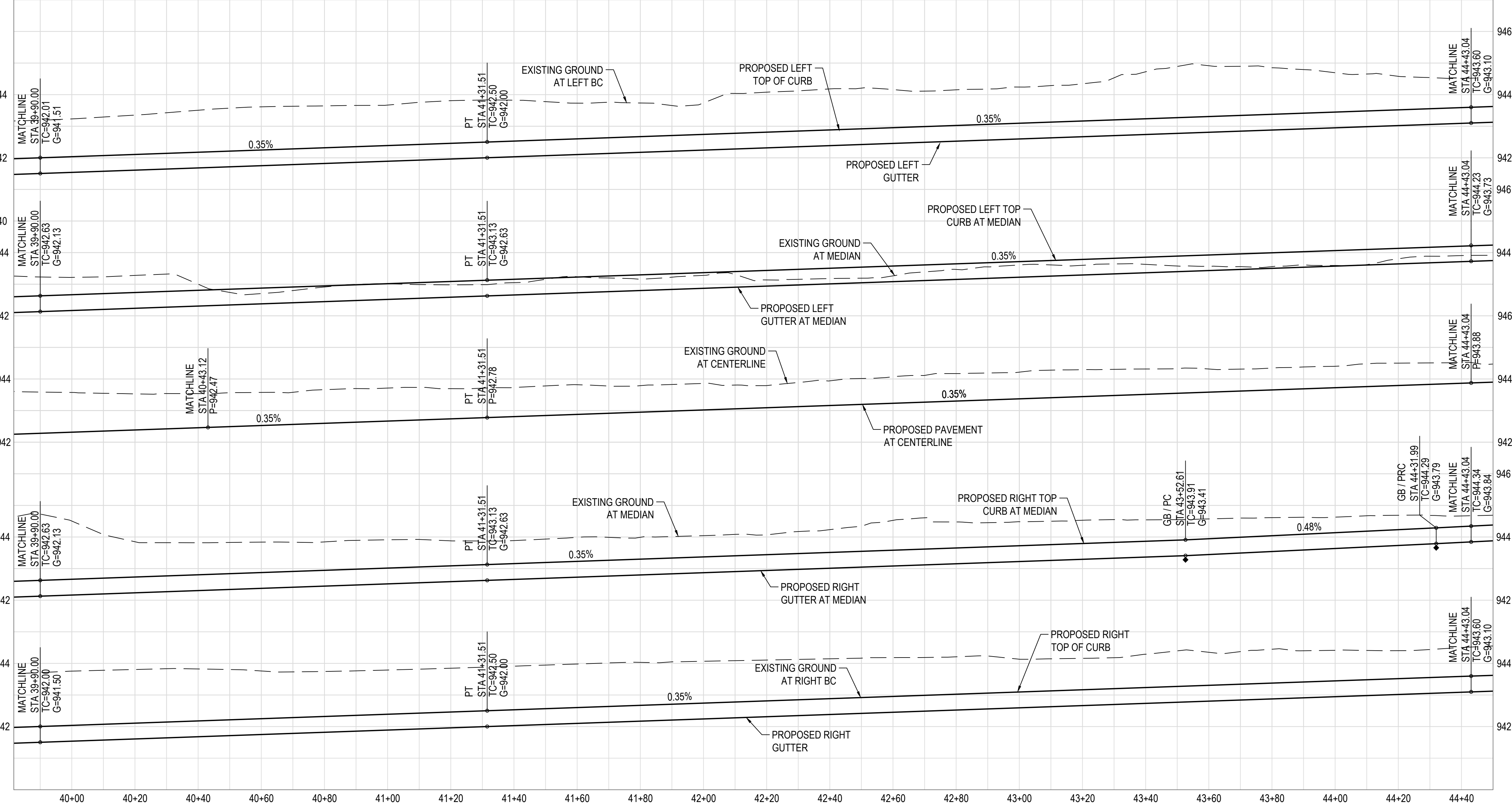
PROJECT NUMBER
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ENG 18-0208



SEE SHEET 20 FOR STREET SECTIONS

BROADWAY ROAD



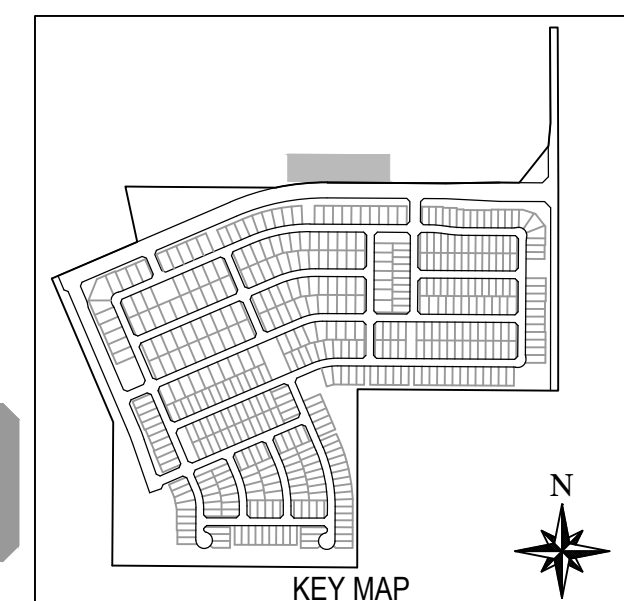
- PAVING NOTES**
- 3 INSTALL SURVEY MARKER PER M.A.G. STANDARD DETAIL 120, TYPE 'A'.
 - 5 CONSTRUCT 6" VERTICAL CURB & GUTTER PER M.A.G. STANDARD DETAIL 220-1, TYPE "A".
 - 6 CONSTRUCT 6" VERTICAL CURB & GUTTER W/ DEPRESSED LIP PER MODIFIED M.A.G. STANDARD DETAIL 220-1, TYPE "A".
 - 10 CONSTRUCT 5' CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
 - 11 CONSTRUCT 10' CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
 - 12 CONSTRUCT 6' CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
 - 31 INSTALL IRRIGATION SLEEVES, SEE IRRIGATION PLAN.
 - 32 ADJUST FRAME & COVER PER C.O.A. STANDARD DETAIL A1391.
 - 38 INSTALL FIRE HYDRANT MARKER PER C.O.A. STANDARD DETAIL A1609.
 - 51 CONSTRUCT MOUNTABLE CURB & GUTTER PER M.A.G. STANDARD DETAIL 220-2, TYPE "E".
 - 52 CONSTRUCT 5' CURB TRANSITION FROM 6" VERTICAL CURB TO MOUNTABLE CURB PER M.A.G. STANDARD DETAIL 220-2.
 - 54 INSTALL 2-3" SCHEDULE 80 PVC CONDUIT WITH PULL TAPE FOR SECONDARY COMMUNICATIONS NETWORK PER C.O.A. STANDARD DETAIL A1720-2 TRENCH DETAIL.
 - 55 INSTALL PULL BOX PER C.O.A. STANDARD DETAIL A1717.
 - 56 CONSTRUCT STREET SECTION PER M.A.G. SPECIFICATIONS SECTION 310 AND 321 AND C.O.A. STANDARD DETAIL A1103. SEE ROADWAY PAVEMENT SECTION DETAIL ON SHEET 23.

BACK OF CURB LINE TABLE

LINE	BEARING	DISTANCE
L58	N89°37'29"W	493.52'
L59	S89°37'29"E	221.11'

BACK OF CURB CURVE TABLE

CURVE	DELTA	RADIUS	ARC	TANGENT	CHORD
BC164	23°32'26"	1491.50'	612.80'	310.78	608.50
BC171	23°32'26"	1565.50'	643.20'	326.20	638.69
BC173	23°32'26"	1535.50'	630.88'	319.95	626.45
BC175	23°32'26"	1521.50'	625.13'	317.04	620.74
BC176	7°14'40"	629.42'	79.58'	39.84	79.53



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WWW.WOODPATEL.COM

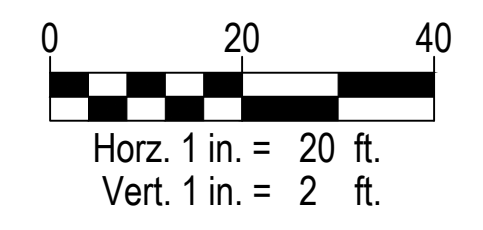
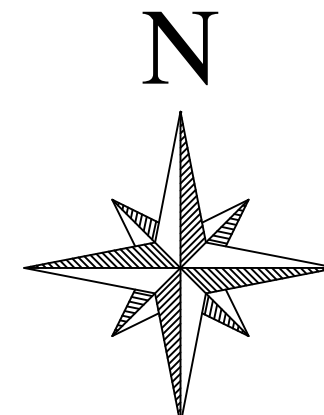
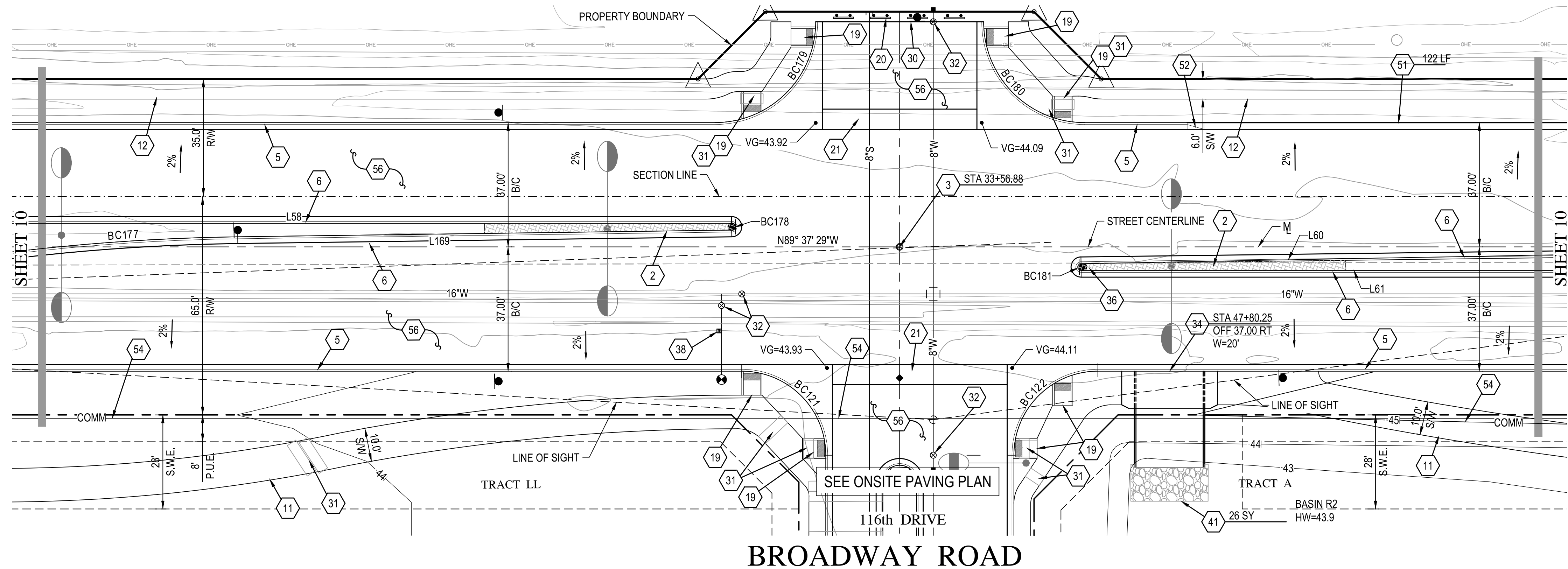
ALAMAR

BROOKFIELD LAKIN, LLC
ALAMAR - PHASE 1
PAVING, STORM DRAIN, SIGNING AND MARKING PLAN
AVONDALE BLVD, BROADWAY RD, AND ALAMAR PARKWAY

DATE: 2/1/2019
SHEET NUMBER: 8 OF 30
PROJECT NUMBER: 174612.04

SCALE (HORIZ.): 1" = 20'
SCALE (VERT.): 1" = 2'

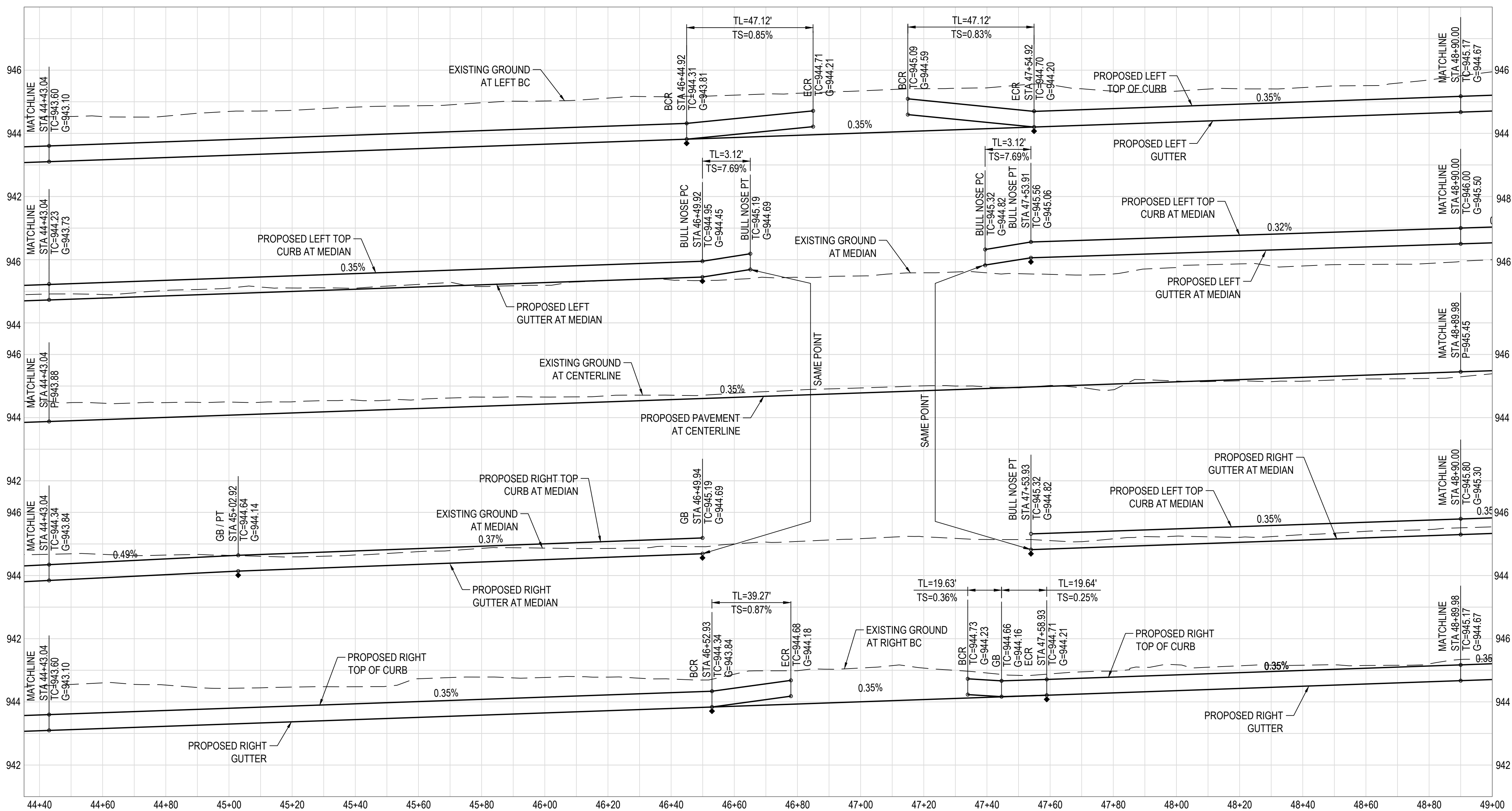
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CHECKED BY: FMK
DRAFTED BY: BT



SEE SHEET 20 FOR STREET SECTIONS

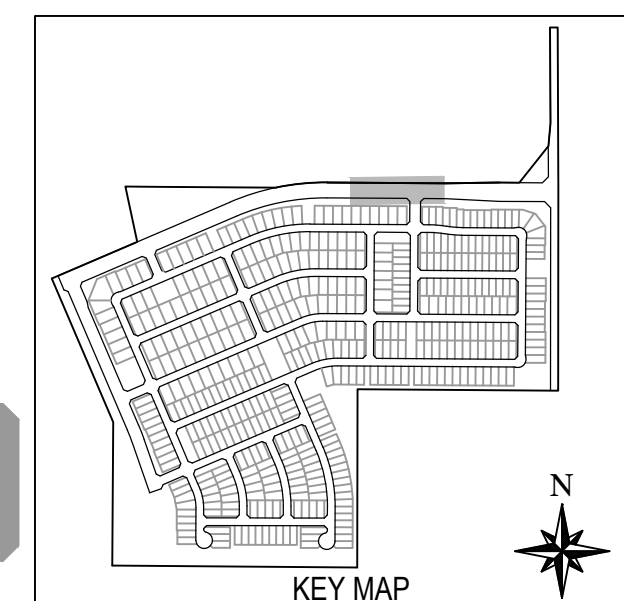
PAVING NOTES

- 2 INSTALL MEDIAN CONCRETE PAVERS PER C.O.A. STANDARD DETAIL A1221. USE BELGARD HOLLAND PAVES 4'x8'x80mm, RED COLOR AND HERRINGBONE PATTERN.
- 3 INSTALL SURVEY MARKER PER M.A.G. STANDARD DETAIL 120, TYPE 'A'.
- 5 CONSTRUCT 6" VERTICAL CURB & GUTTER PER M.A.G. STANDARD DETAIL 220-1, TYPE "A".
- 6 CONSTRUCT 6" VERTICAL CURB & GUTTER W/ DEPRESSED LIP PER MODIFIED M.A.G. STANDARD DETAIL 220-1, TYPE "A".
- 10 CONSTRUCT 5' CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
- 11 CONSTRUCT 10' CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
- 12 CONSTRUCT 6' CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
- 19 CONSTRUCT SIDEWALK RAMP PER C.O.A. STANDARD DETAIL A1235.2.
- 20 INSTALL BARRICADE PER M.A.G. STANDARD DETAIL 130, TYPE "B". LENGTH OF BARRICADE PER PLAN.
- 21 CONSTRUCT 6' VALLEY GUTTER AND APRON PER M.A.G. STANDARD DETAIL 240.
- 30 CONSTRUCT ASPHALT PAVEMENT EDGE PER M.A.G. STANDARD DETAIL 201, TYPE "A".
- 31 INSTALL IRRIGATION SLEEVES, SEE IRRIGATION PLAN.
- 32 ADJUST FRAME & COVER PER C.O.A. STANDARD DETAIL A1391.
- 34 CONSTRUCT SCUPPER PER M.A.G. STANDARD DETAIL 206-1 AND 206-2 (WIDTH PER PLAN) AND HAND RAIL PER M.A.G. STANDARD DETAIL 145 TYPE I. SEE SCUPPER CHANNEL DETAIL ON DETAIL SHEET.
- 36 CONSTRUCT MEDIAN ISLAND PER C.O.A. STANDARD DETAIL A1220.
- 38 INSTALL FIRE HYDRANT MARKER PER C.O.A. STANDARD DETAIL A1609.
- 41 CONSTRUCT TYPE I LOOSE RIP-RAP PROTECTION PER GRADATION TABLE ON DETAIL SHEET. THICKNESS = 12".
- 51 CONSTRUCT MOUNTABLE CURB & GUTTER PER M.A.G. STANDARD DETAIL 220-2, TYPE "E".
- 52 CONSTRUCT 5' CURB TRANSITION FROM 6" VERTICAL CURB TO MOUNTABLE CURB PER M.A.G. STANDARD DETAIL 220-2.
- 54 INSTALL 2-3" SCHEDULE 80 PVC CONDUIT WITH PULL TAPE FOR SECONDARY COMMUNICATIONS NETWORK PER C.O.A. STANDARD DETAIL A1720-2 TRENCH DETAIL.
- 55 CONSTRUCT STREET SECTION PER M.A.G. SPECIFICATIONS SECTION 310 AND 321 AND C.O.A. STANDARD DETAIL A1103. SEE ROADWAY PAVEMENT SECTION DETAIL ON SHEET 23.



CURVE	DELTA	RADIUS	ARC	TANGENT	CHORD
BC121	90°00'00"	25.00'	39.27'	25.00'	35.36'
BC122	90°00'00"	25.00'	39.27'	25.00'	35.36'
BC177	6°27'54"	630.58'	71.15'	35.61'	71.11'
BC178	178°55'33"	1.00'	3.12'	106.68'	2.00'
BC179	90°00'00"	30.00'	47.12'	30.00'	42.43'
BC180	90°00'00"	30.00'	47.12'	30.00'	42.43'
BC181	178°55'33"	1.00'	3.12'	106.68'	2.00'

LINE	BEARING	DISTANCE
L58	N89°37'29"W	518.40'
L60	S89°18'04"W	160.57'
L61	S89°37'29"E	151.14'
L169	N89°35'44"E	147.03'



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ALAMAR

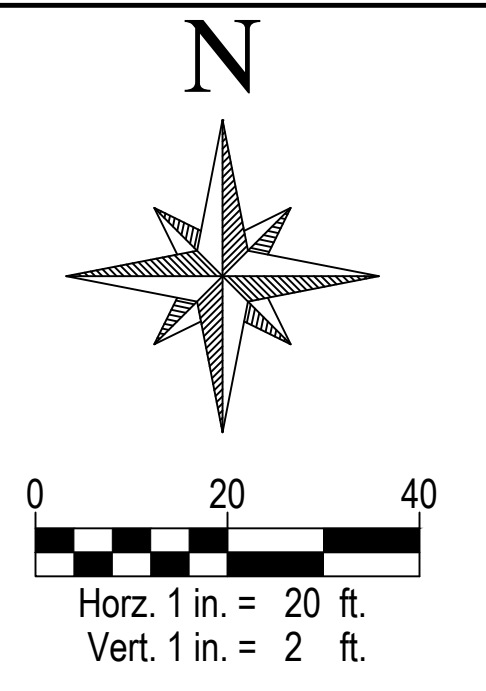
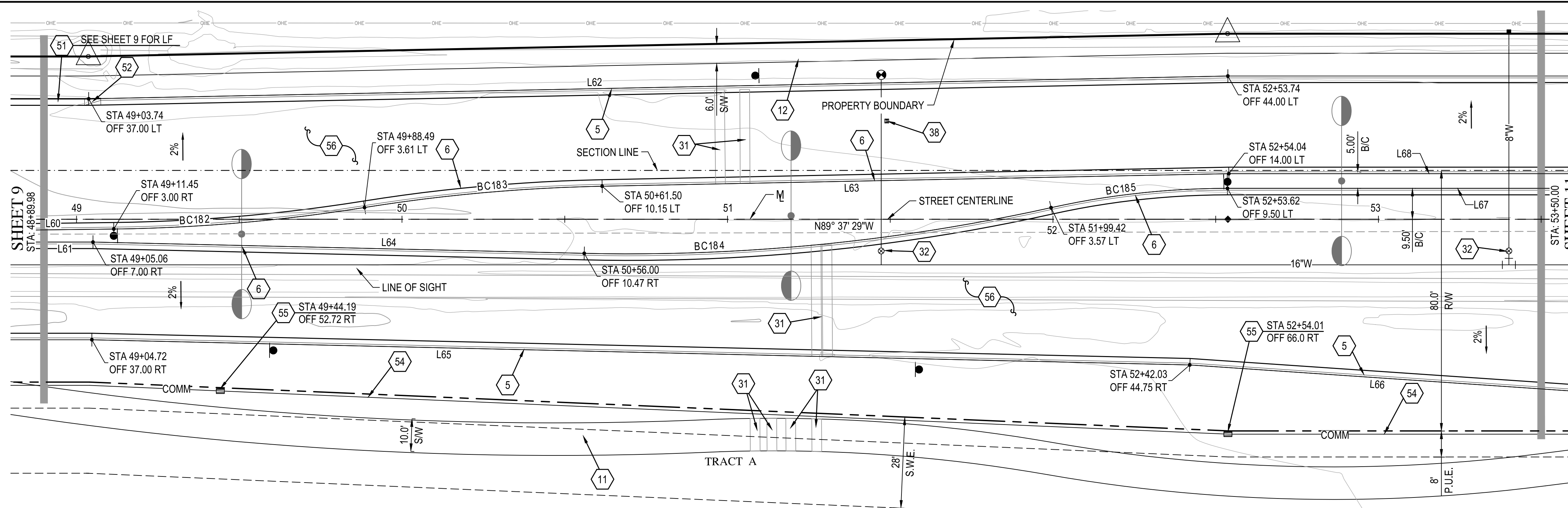
BROOKFIELD LAKIN, LLC
ALAMAR - PHASE 1
PAVING, STORM DRAIN, SIGNING AND MARKING PLAN
AVONDALE BLVD, BROADWAY RD, AND ALAMAR PARKWAY

SEAL
Professional Engineer
31985
FRANK MINGFER
MINGFER ENGINEERING
2100 W. WASHINGTON AVE., SUITE 200
AVONDALE, AZ 85002

DATE: 2/1/2019
LATEST REVISION DATE:

SHEET NUMBER
9 OF 30

PROJECT NUMBER
174612.04

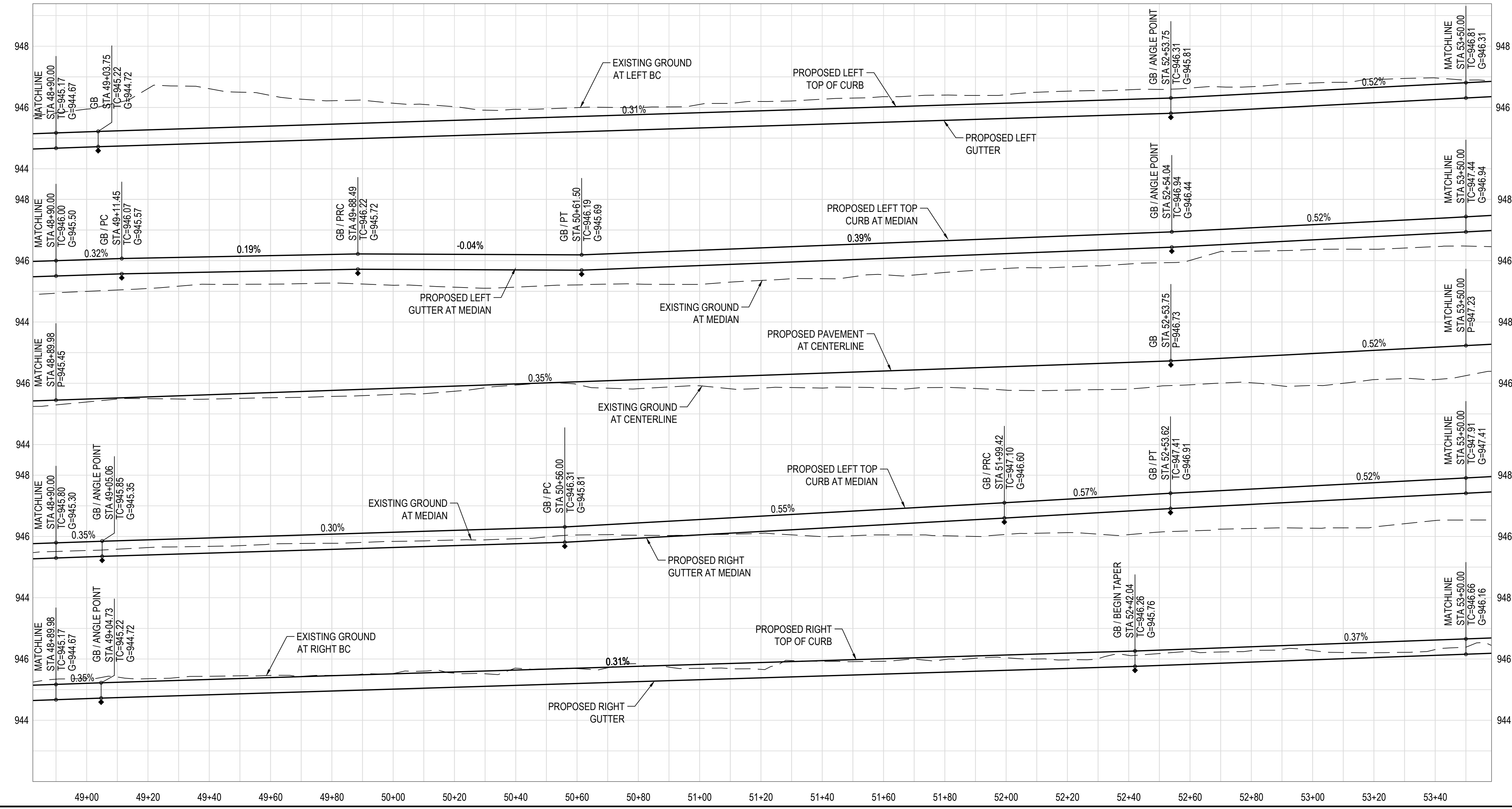


SEE SHEET 20 FOR STREET SECTIONS

PAVING NOTES

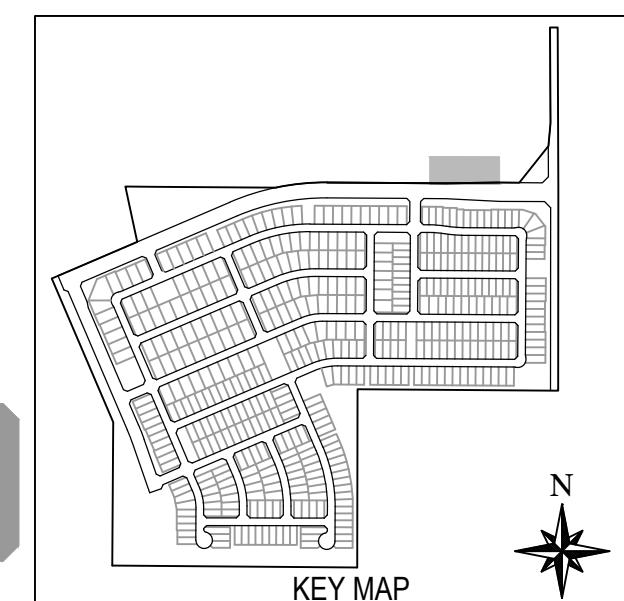
- 5) CONSTRUCT 6" VERTICAL CURB & GUTTER PER M.A.G. STANDARD DETAIL 220-1, TYPE "A".
- 6) CONSTRUCT 6" VERTICAL CURB & GUTTER W/ DEPRESSED LIP PER MODIFIED M.A.G. STANDARD DETAIL 220-1, TYPE "A".
- 11) CONSTRUCT 10' CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
- 12) CONSTRUCT 6" CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
- 31) INSTALL IRRIGATION SLEEVES. SEE IRRIGATION PLAN.
- 32) ADJUST FRAME & COVER PER C.O.A. STANDARD DETAIL A1391.
- 38) INSTALL FIRE HYDRANT MARKER PER C.O.A. STANDARD DETAIL A1609.
- 51) CONSTRUCT MOUNTABLE CURB & GUTTER PER M.A.G. STANDARD DETAIL 220-2, TYPE "E".
- 52) CONSTRUCT 5' CURB TRANSITION FROM 6" VERTICAL CURB TO MOUNTABLE CURB PER M.A.G. STANDARD DETAIL 220-2.
- 54) INSTALL 2-3" SCHEDULE 80 PVC CONDUIT WITH PULL TAPE FOR SECONDARY COMMUNICATIONS NETWORK PER C.O.A. STANDARD DETAIL A1720-2 TRENCH DETAIL.
- 55) INSTALL PULL BOX PER C.O.A. STANDARD DETAIL A1717.
- 56) CONSTRUCT STREET SECTION PER M.A.G. SPECIFICATIONS SECTION 310 AND 321 AND C.O.A. STANDARD DETAIL A1103. SEE ROADWAY PAVEMENT SECTION DETAIL ON SHEET 23.

BROADWAY ROAD



LINE	BEARING	DISTANCE
L60	S89°38'52"W	157.55'
L61	S89°37'29"E	151.14'
L62	S89°13'46"W	350.07'
L63	S89°13'46"W	192.57'
L64	S88°18'33"E	150.97'
L65	N88°18'33"W	337.40'
L66	S85°43'52"E	158.37'
L67	S89°37'29"E	300.00'
L68	N89°37'29"W	299.59'

CURVE	DELTA	RADIUS	ARC	TANGENT	CHORD
BC182	8°21'28"	530.58'	77.40'	38.77'	77.33'
BC183	7°56'22"	529.42'	73.36'	36.74'	73.30'
BC184	13°48'29"	599.42'	144.46'	72.58'	144.11'
BC185	12°29'33"	250.58'	54.63'	27.43'	54.53'



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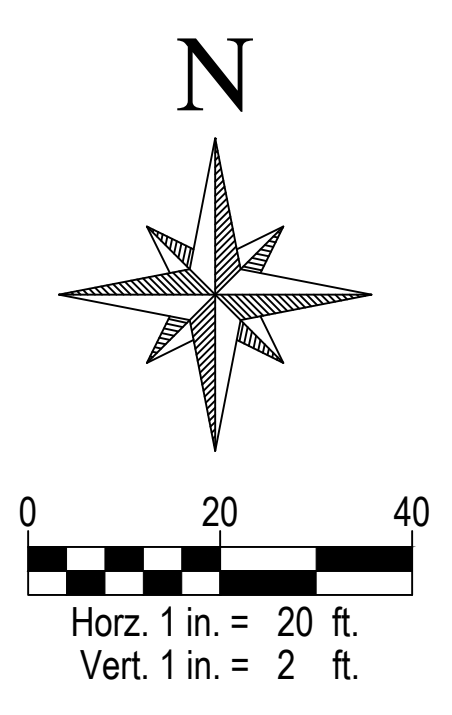
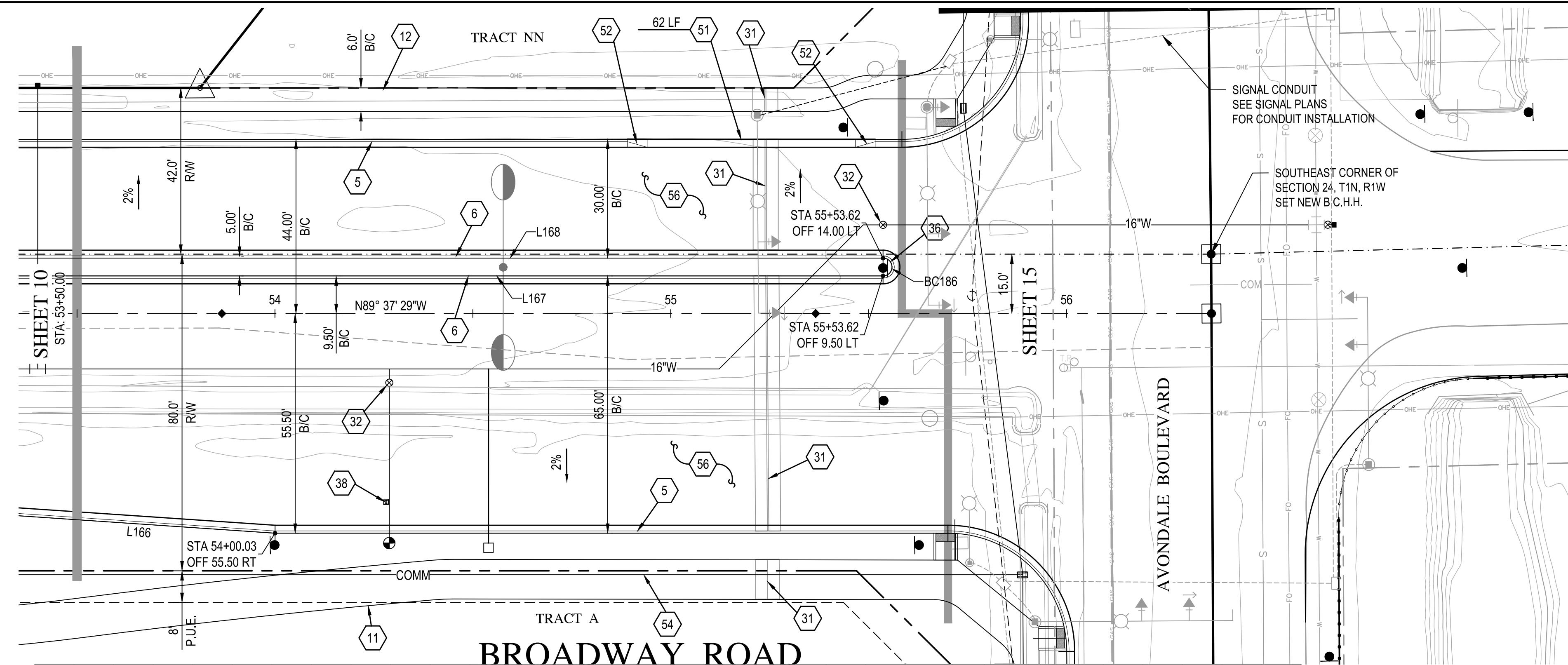
ALAMAR

BROOKFIELD LAKIN, LLC
ALAMAR - PHASE 1
PAVING, STORM DRAIN, SIGNING AND MARKING PLAN
AVONDALE BLVD, BROADWAY RD, AND ALAMAR PARKWAY

DATE: 2/11/2019
LATEST REVISION DATE: 2/11/2019
SHEET NUMBER: 10 OF 30
PROJECT NUMBER: 174612.04

DATE: 2/11/2019
LATEST REVISION DATE: 2/11/2019
SHEET NUMBER: 10 OF 30
PROJECT NUMBER: 174612.04

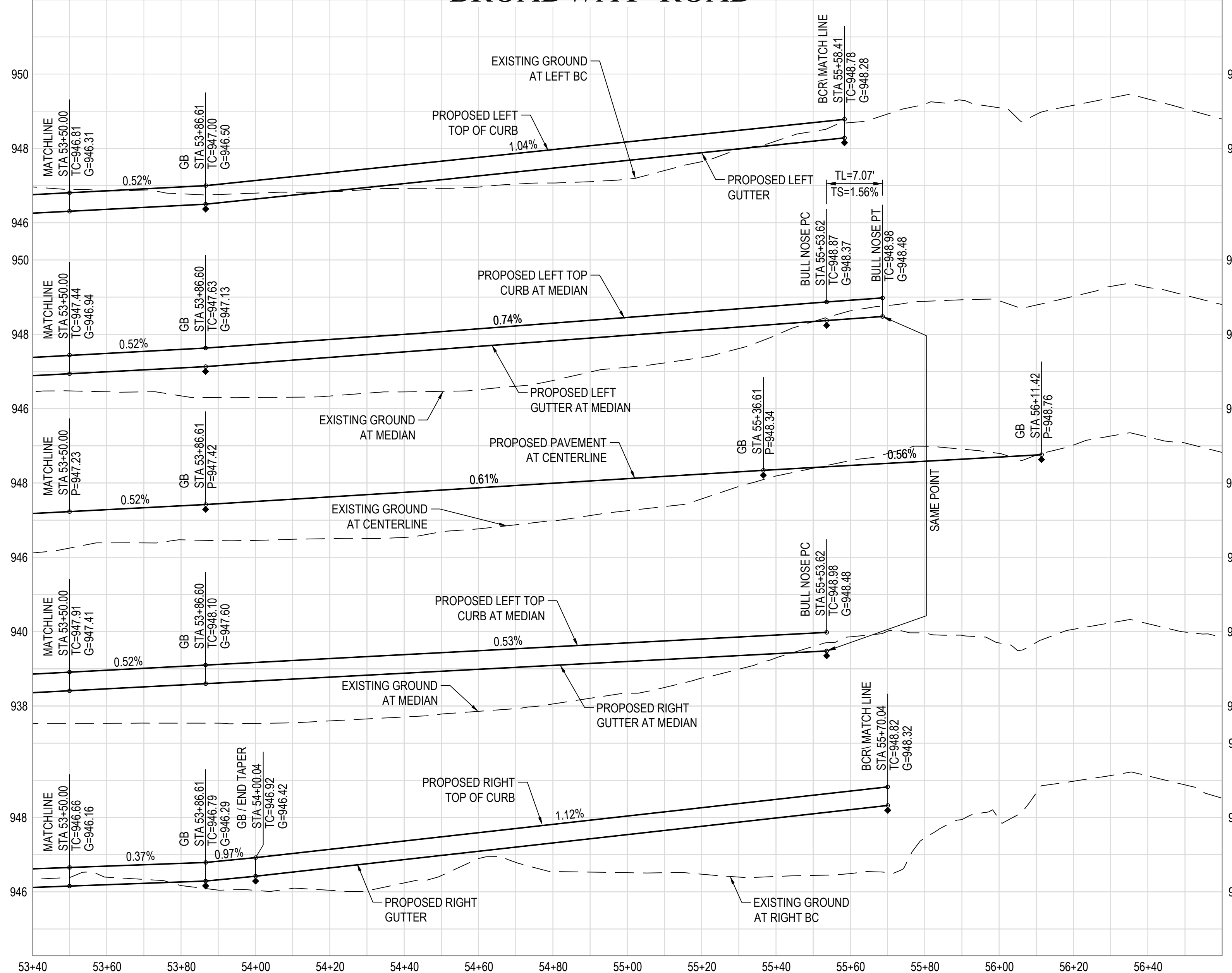
DATE: 2/11/2019
LATEST REVISION DATE: 2/11/2019
SHEET NUMBER: 10 OF 30
PROJECT NUMBER: 174612.04



SEE SHEET 20 FOR STREET SECTIONS

PAVING NOTES

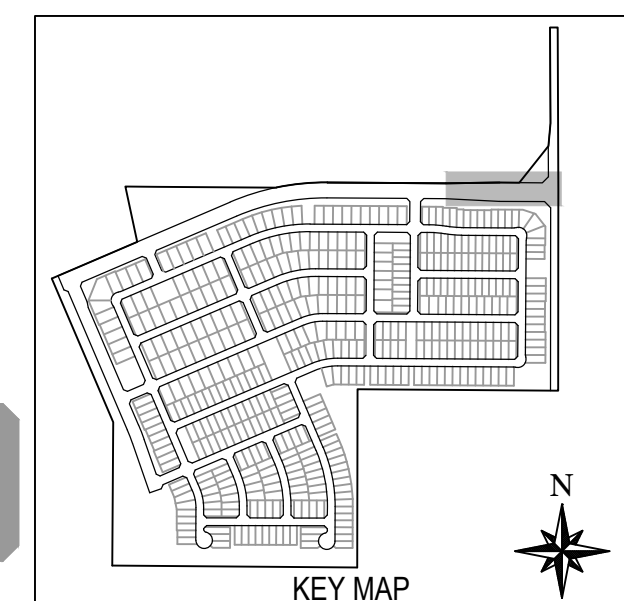
- 5 CONSTRUCT 6" VERTICAL CURB & GUTTER PER M.A.G. STANDARD DETAIL 220-1, TYPE "A".
- 6 CONSTRUCT 6" VERTICAL CURB & GUTTER W/ DEPRESSED LIP PER MODIFIED M.A.G. STANDARD DETAIL 220-1, TYPE "A".
- 11 CONSTRUCT 10' CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
- 12 CONSTRUCT 6" CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
- 31 INSTALL IRRIGATION SLEEVES, SEE IRRIGATION PLAN.
- 32 ADJUST FRAME & COVER PER C.O.A. STANDARD DETAIL A1391.
- 36 CONSTRUCT MEDIAN ISLAND PER C.O.A. STANDARD DETAIL A1220.
- 38 INSTALL FIRE HYDRANT MARKER PER C.O.A. STANDARD DETAIL A1609.
- 51 CONSTRUCT MOUNTABLE CURB & GUTTER PER M.A.G. STANDARD DETAIL 220-2, TYPE "E".
- 52 CONSTRUCT 5' CURB TRANSITION FROM 6" VERTICAL CURB TO MOUNTABLE CURB PER M.A.G. STANDARD DETAIL 220-2.
- 54 INSTALL 2-3" SCHEDULE 80 PVC CONDUIT WITH PULL TAPE FOR SECONDARY COMMUNICATIONS NETWORK PER C.O.A. STANDARD DETAIL A1720-2 TRENCH DETAIL.
- 56 CONSTRUCT STREET SECTION PER M.A.G. SPECIFICATIONS SECTION 310 AND 321 AND C.O.A. STANDARD DETAIL A1103. SEE ROADWAY PAVEMENT SECTION DETAIL ON SHEET 23.



BACK OF CURB LINE TABLE

LINE	BEARING	DISTANCE
L166	N85°43'52"W	158.37'
L167	S89°37'29"E	300.00'
L168	N89°37'29"W	299.59'

CURVE	DELTA	RADIUS	ARC	TANGENT	CHORD
BC186	180°00'00"	2.25'	7.07'	INF	4.50'



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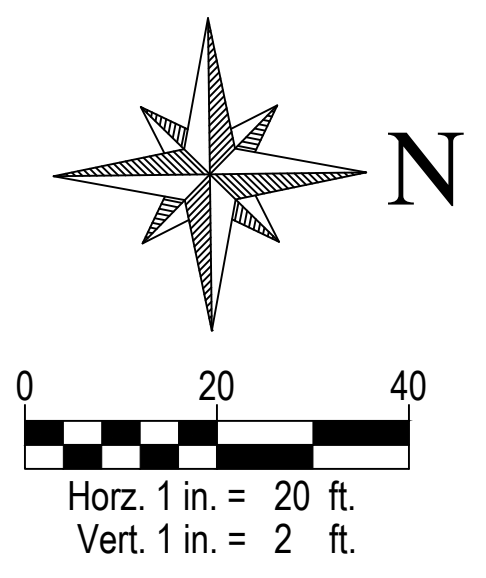
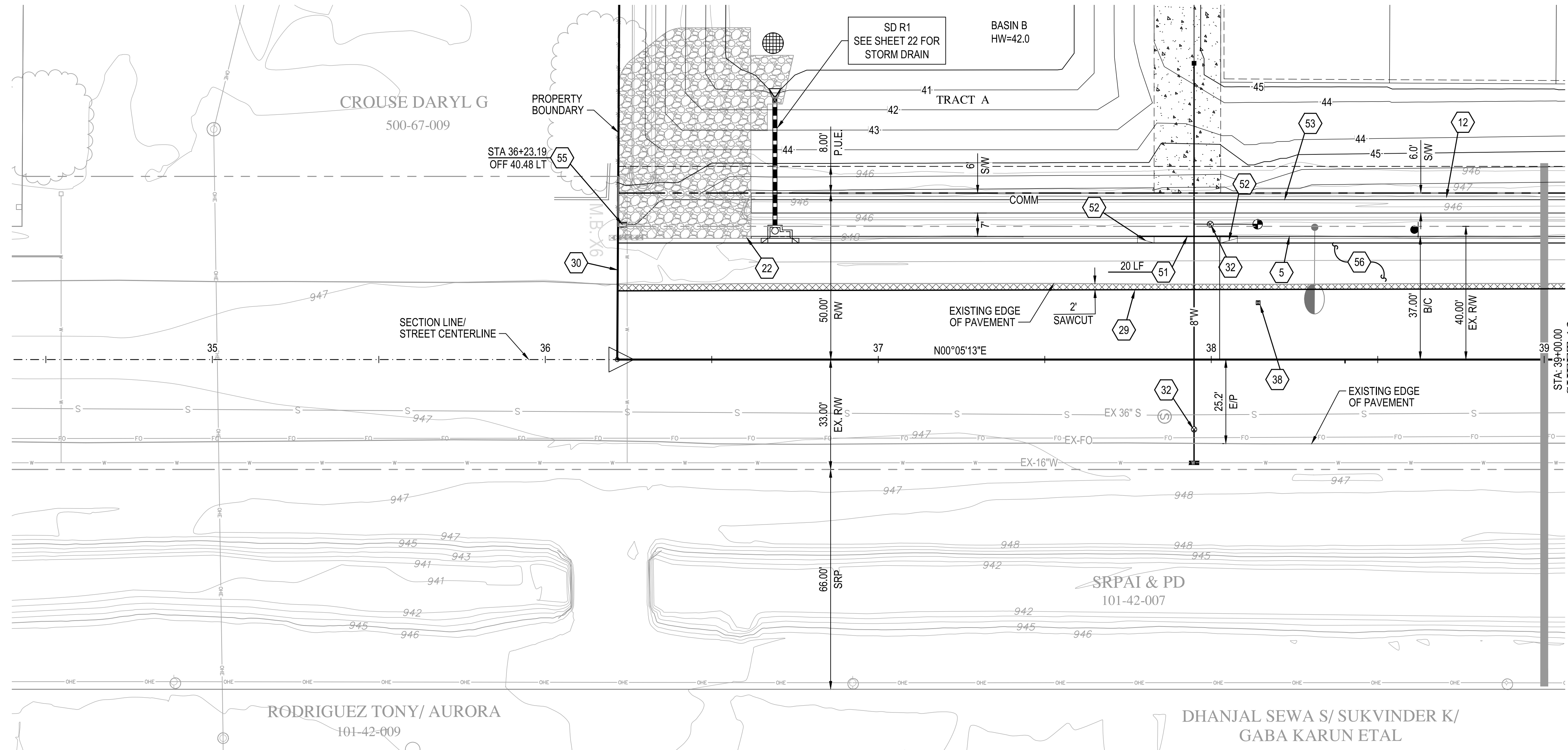
ALAMAR

BROOKFIELD LAKIN, LLC
ALAMAR - PHASE 1
PAVING, STORM DRAIN, SIGNING AND MARKING PLAN
AVONDALE BLVD, BROADWAY RD, AND ALAMAR PARKWAY

DATE: 2/1/2019
LATEST REVISION DATE: _____

SHEET NUMBER: 11 OF 30
PROJECT NUMBER: 174612.04

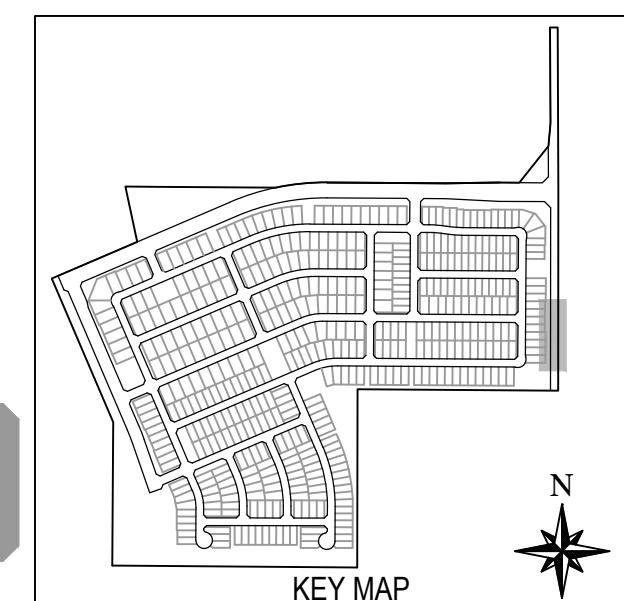
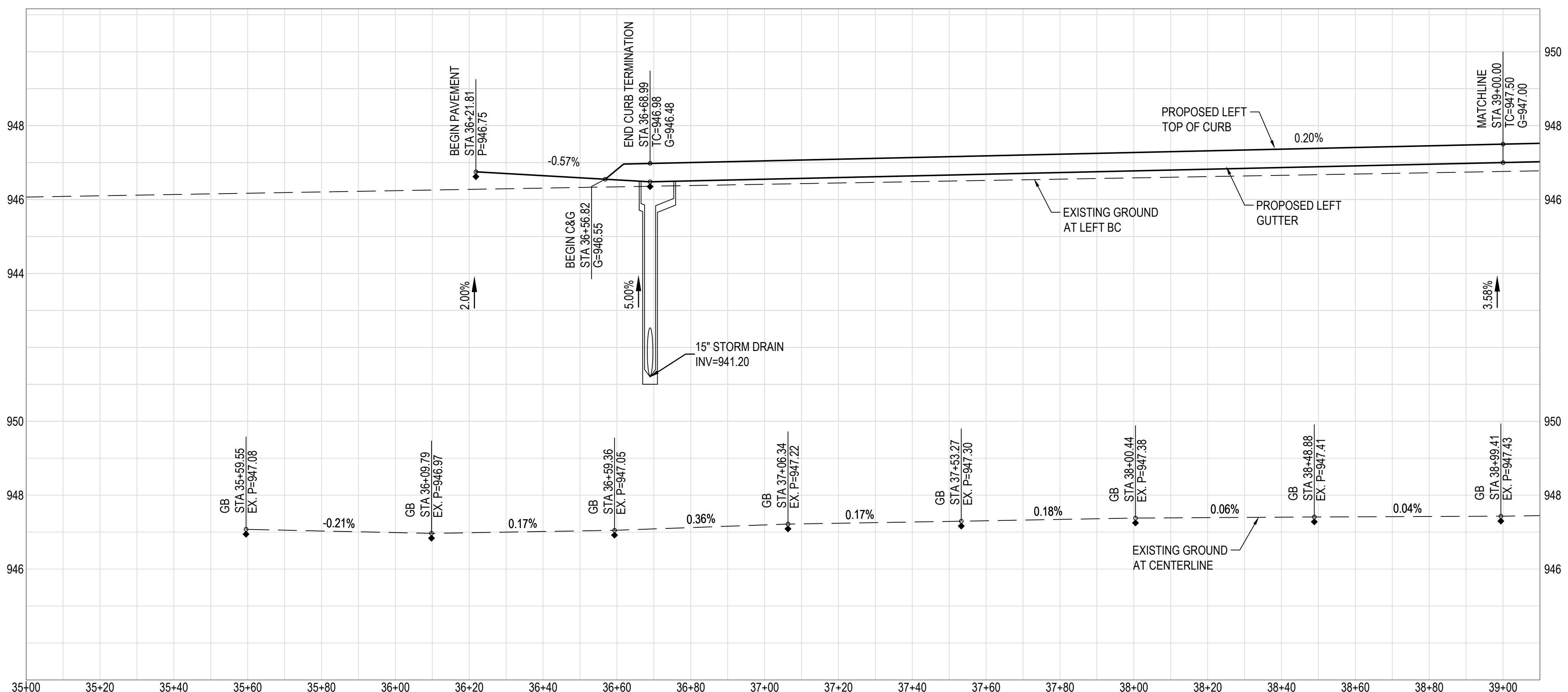
ENG 18-0208



SEE SHEET 20 FOR STREET SECTIONS

PAVING NOTES

- 5 CONSTRUCT 6" VERTICAL CURB & GUTTER PER M.A.G. STANDARD DETAIL 220-1, TYPE "A".
- 12 CONSTRUCT 6" CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
- 22 CONSTRUCT CURB TERMINATION PER M.A.G. STANDARD DETAIL 222.
- 28 SAWCUT AND REMOVE & REPLACE EXISTING PAVEMENT PER M.A.G. SPECIFICATIONS SECTION 310 AND 321 AND PAVEMENT SECTION PER DETAIL ON DETAIL SHEET.
- 30 CONSTRUCT ASPHALT PAVEMENT EDGE PER M.A.G. STANDARD DETAIL 201, TYPE "A".
- 32 ADJUST FRAME & COVER PER C.O.A. STANDARD DETAIL A1391.
- 38 INSTALL FIRE HYDRANT MARKER PER C.O.A. STANDARD DETAIL A1609.
- 51 CONSTRUCT MOUNTABLE CURB & GUTTER PER M.A.G. STANDARD DETAIL 220-2, TYPE "E".
- 52 CONSTRUCT 5' CURB TRANSITION FROM 6" VERTICAL CURB TO MOUNTABLE CURB PER M.A.G. STANDARD DETAIL 220-2.
- 53 INSTALL 2-2" AND 2-4" SCHEDULE 80 PVC CONDUIT WITH PULL TAPE FOR PRIMARY COMMUNICATIONS NETWORK PER CITY OF AVONDALE STANDARD DETAIL A1720-1 TRENCH DETAIL.
- 55 INSTALL PULL BOX PER C.O.A. STANDARD DETAIL A1717.
- 56 CONSTRUCT STREET SECTION PER M.A.G. SPECIFICATIONS SECTION 310 AND 321 AND C.O.A. STANDARD DETAIL A1103. SEE ROADWAY PAVEMENT SECTION DETAIL ON SHEET 23.



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ALAMAR

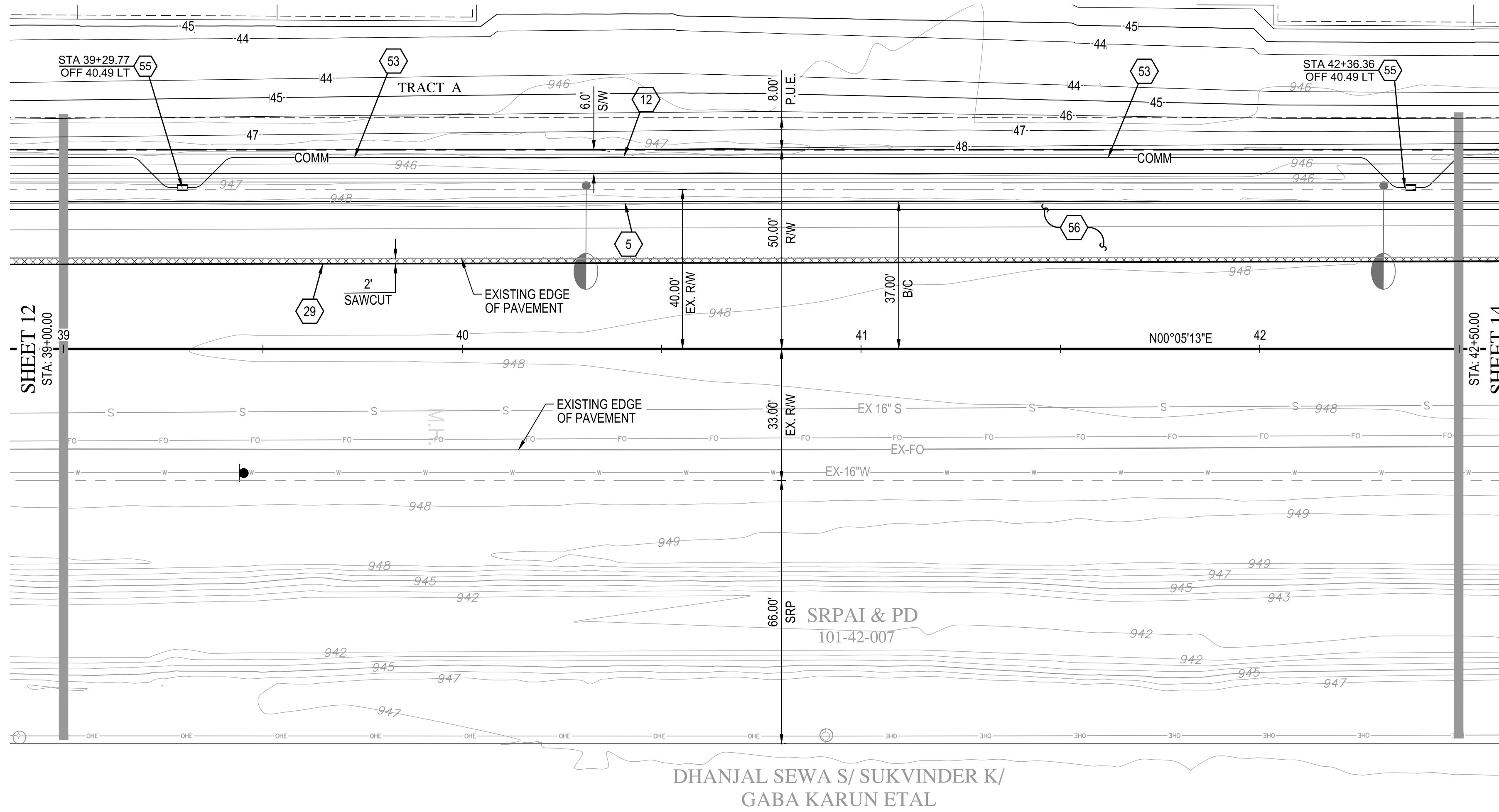
DEVELOPER: BROOKFIELD LAKIN, LLC
PROJECT NAME: ALAMAR - PHASE 1
PLAN TYPE: PAVING, STORM DRAIN, SIGNING AND MARKING PLAN
LOCATION: AVONDALE BLVD, BROADWAY RD, AND ALAMAR PARKWAY

PROFESSIONAL ENGINEER
FRANK MINGENGO
31985
EXPIRES 12-31-21

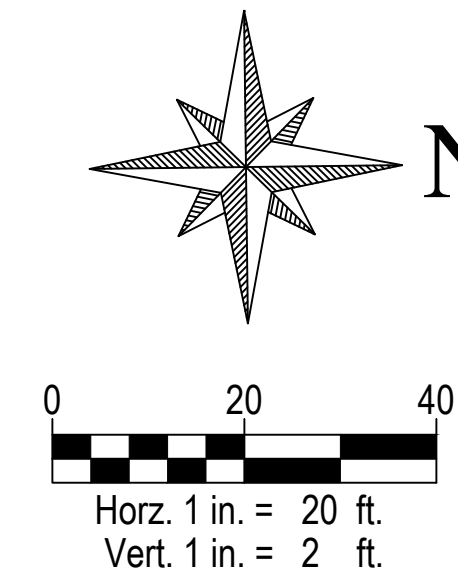
DATE: 2/11/2019

SHEET NUMBER: 12 OF 30
PROJECT NUMBER: 174612.04

ENG 18-0208



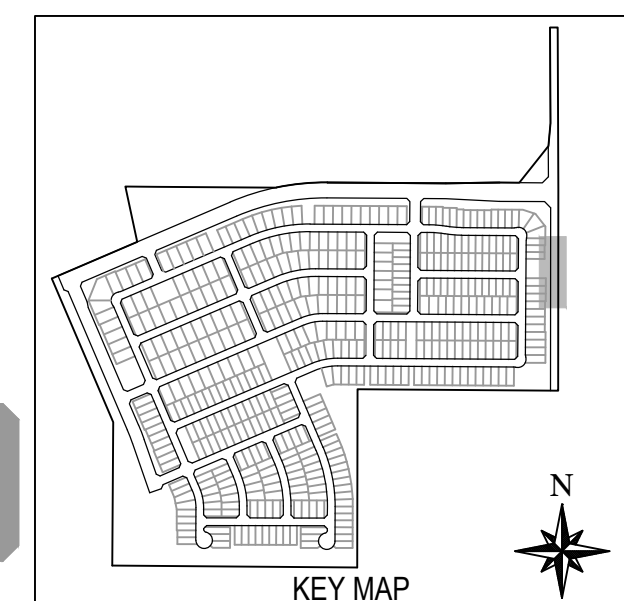
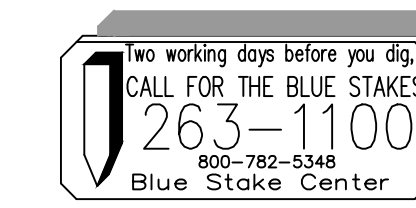
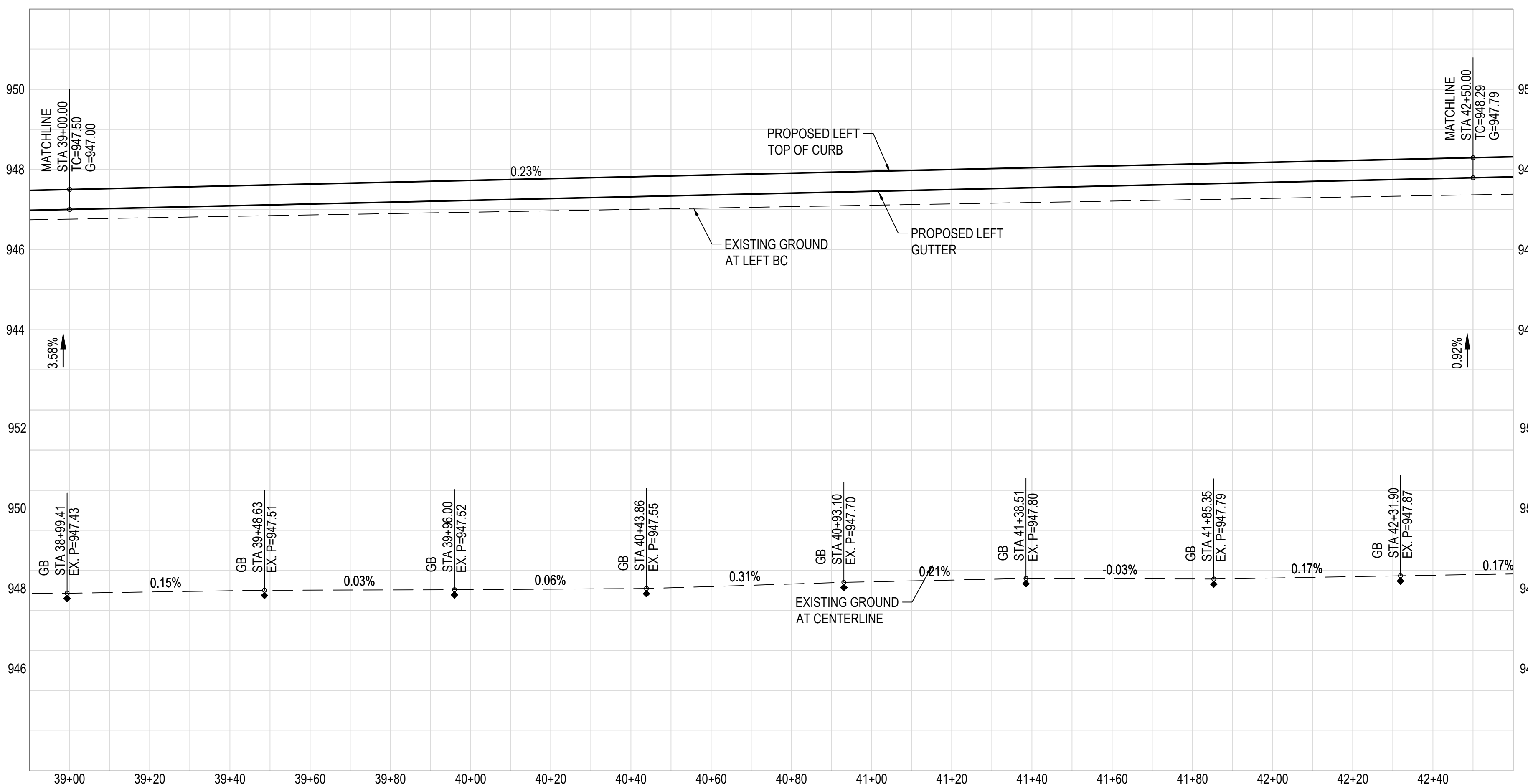
AVONDALE BOULEVARD



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PAVING NOTES

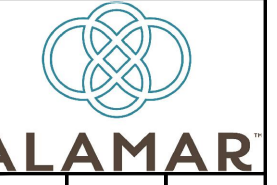
- 5 CONSTRUCT 6" VERTICAL CURB & GUTTER PER M.A.G. STANDARD DETAIL 220-1, TYPE "A".
- 12 CONSTRUCT 6" CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
- 29 SAWCUT AND REMOVE & REPLACE EXISTING PAVEMENT PER M.A.G. SPECIFICATIONS SECTION 310 AND 321 AND PAVEMENT SECTION PER DETAIL ON DETAIL SHEET.
- 53 INSTALL 2-2" AND 2-4" SCHEDULE 80 PVC CONDUIT WITH PULL TAPE FOR PRIMARY COMMUNICATIONS NETWORK PER CITY OF AVONDALE STANDARD DETAIL A1720-1 TRENCH DETAIL.
- 55 INSTALL PULL BOX PER C.O.A. STANDARD DETAIL A1717.
- 56 CONSTRUCT STREET SECTION PER M.A.G. SPECIFICATIONS SECTION 310 AND 321 AND C.O.A. STANDARD DETAIL A1103. SEE ROADWAY PAVEMENT SECTION DETAIL ON SHEET 23.



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SCALE (HORIZ.)	1" = 20'
SCALE (VERT.)	1" = 2'

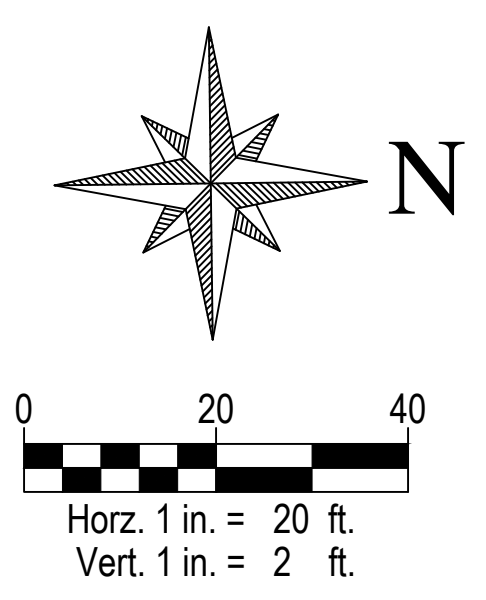
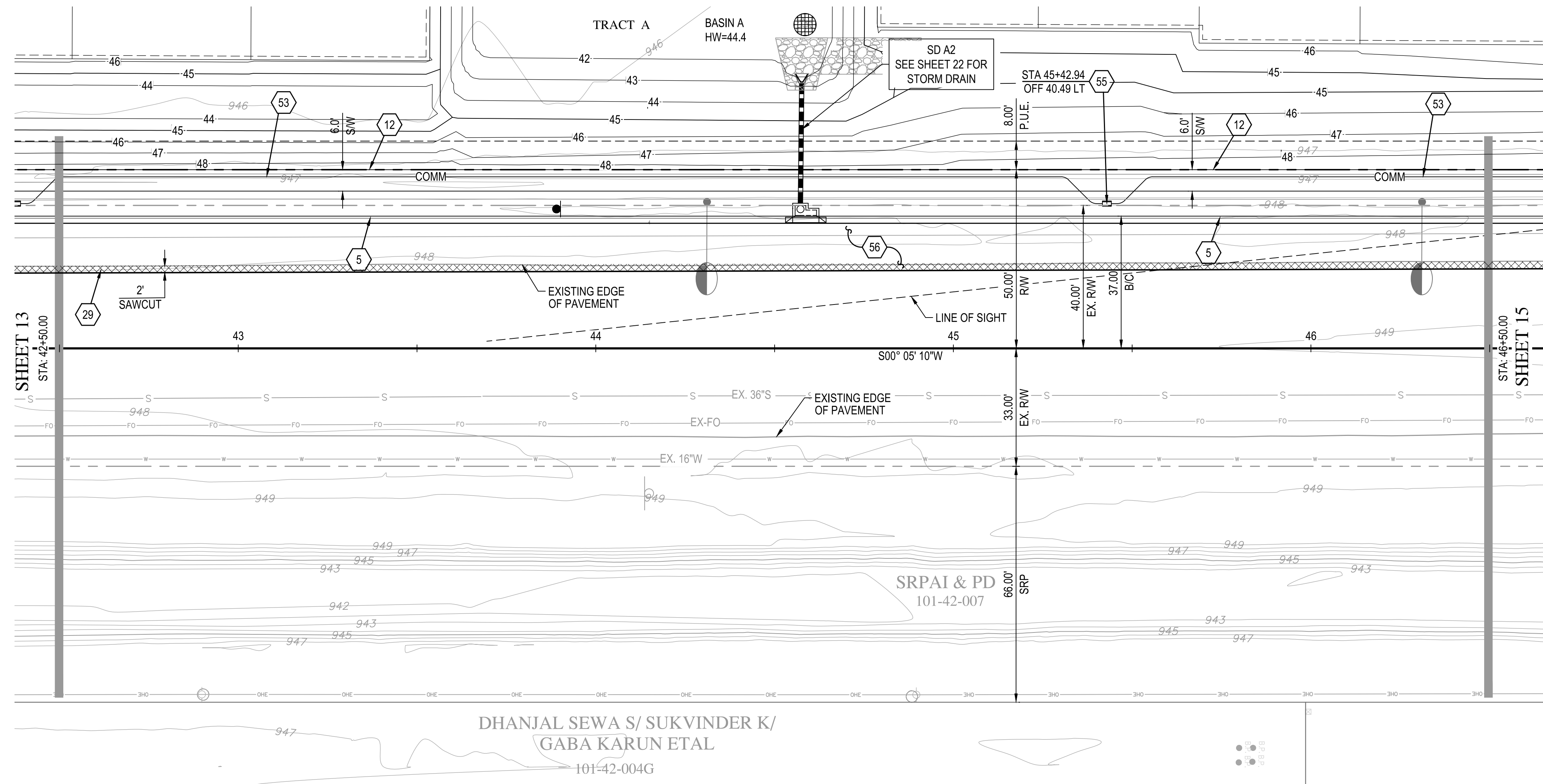
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DEVELOPER: BROOKFIELD LAKIN, LLC
 PROJECT NAME: ALAMAR - PHASE 1
 PLAN TYPE: PAVING, STORM DRAIN, SIGNING AND MARKING PLAN
 AVONDALE BLVD, BROADWAY RD, AND ALAMAR PARKWAY



PLAN DATE: 2/1/2019
 SHEET NUMBER: 13 OF 30
 PROJECT NUMBER: 174612.04

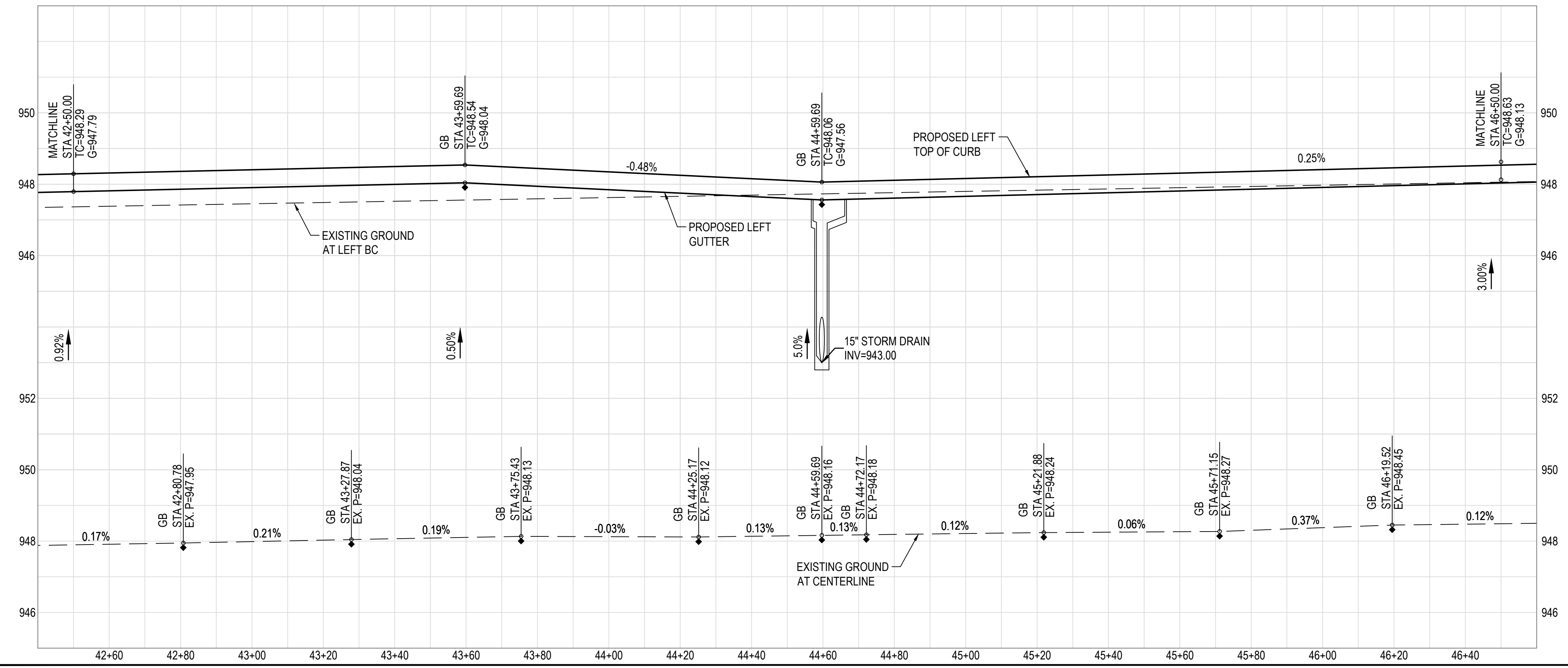


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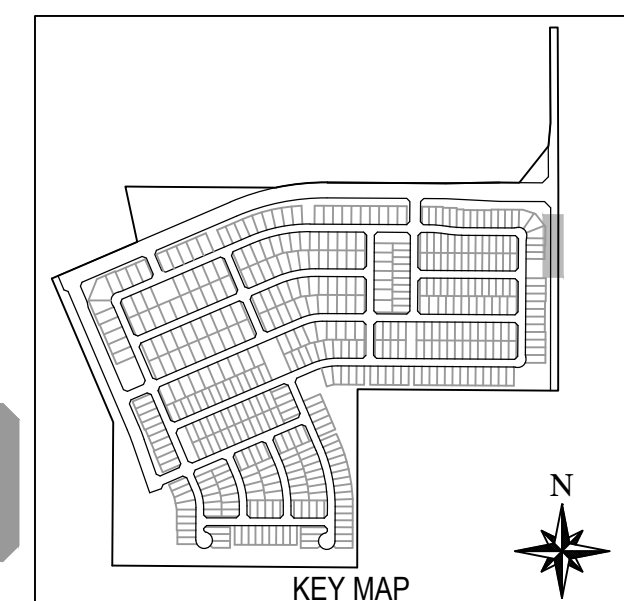
PAVING NOTES

- 5) CONSTRUCT 6" VERTICAL CURB & GUTTER PER M.A.G. STANDARD DETAIL 220-1, TYPE "A".
- 12) CONSTRUCT 6" CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
- 29) SAWCUT AND REMOVE & REPLACE EXISTING PAVEMENT PER M.A.G. SPECIFICATIONS SECTION 310 AND 321 AND PAVEMENT SECTION PER DETAIL ON DETAIL SHEET.
- 53) INSTALL 2-2" AND 2-4" SCHEDULE 80 PVC CONDUIT WITH PULL TAPE FOR PRIMARY COMMUNICATIONS NETWORK PER CITY OF AVONDALE STANDARD DETAIL A1720-1 TRENCH DETAIL.
- 55) INSTALL PULL BOX PER C.O.A. STANDARD DETAIL A1717.
- 56) CONSTRUCT STREET SECTION PER M.A.G. SPECIFICATIONS SECTION 310 AND 321 AND C.O.A. STANDARD DETAIL A1103. SEE ROADWAY PAVEMENT SECTION DETAIL ON SHEET 23.

AVONDALE BOULEVARD



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ALAMAR

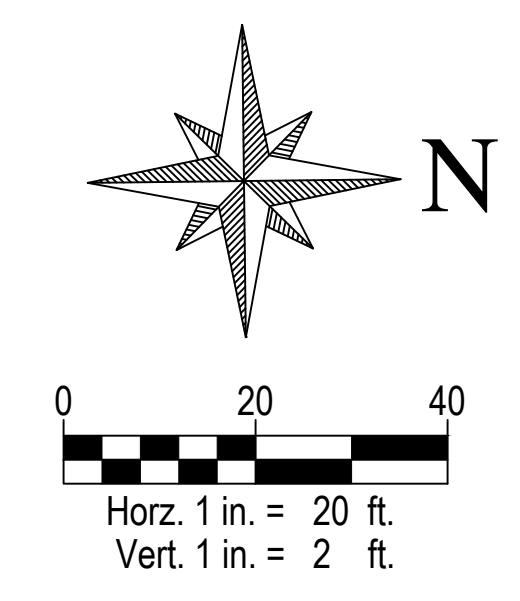
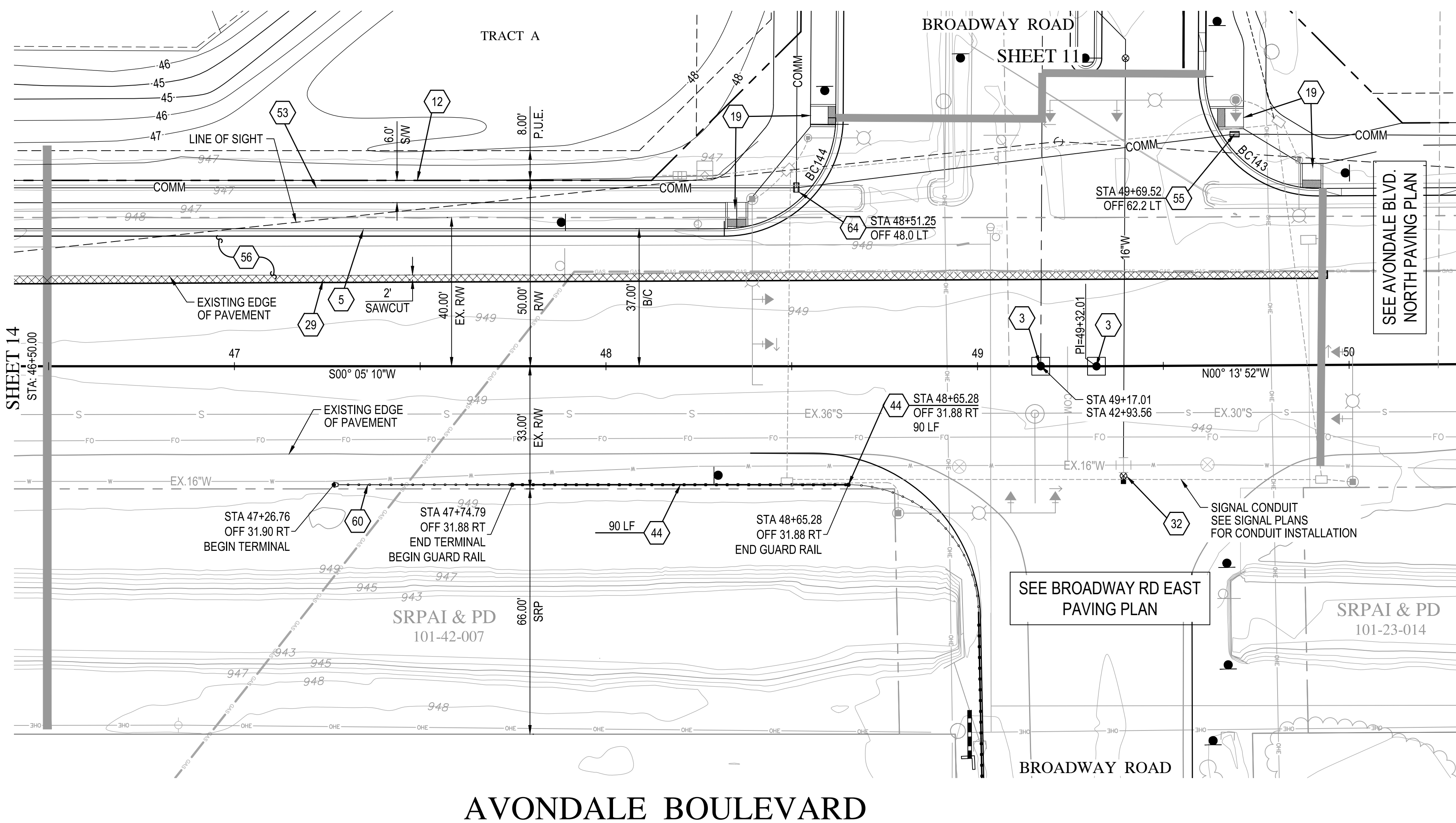
DEVELOPER: BROOKFIELD LAKIN, LLC
PROJECT NAME: ALAMAR - PHASE 1
PLAN TYPE: PAVING, STORM DRAIN, SIGNING AND MARKING PLAN
AVONDALE BLVD, BROADWAY RD, AND ALAMAR PARKWAY

SEAL: PROFESSIONAL ENGINEER
31985
FRANK MINGENKOO
EXPIRES 12-31-21

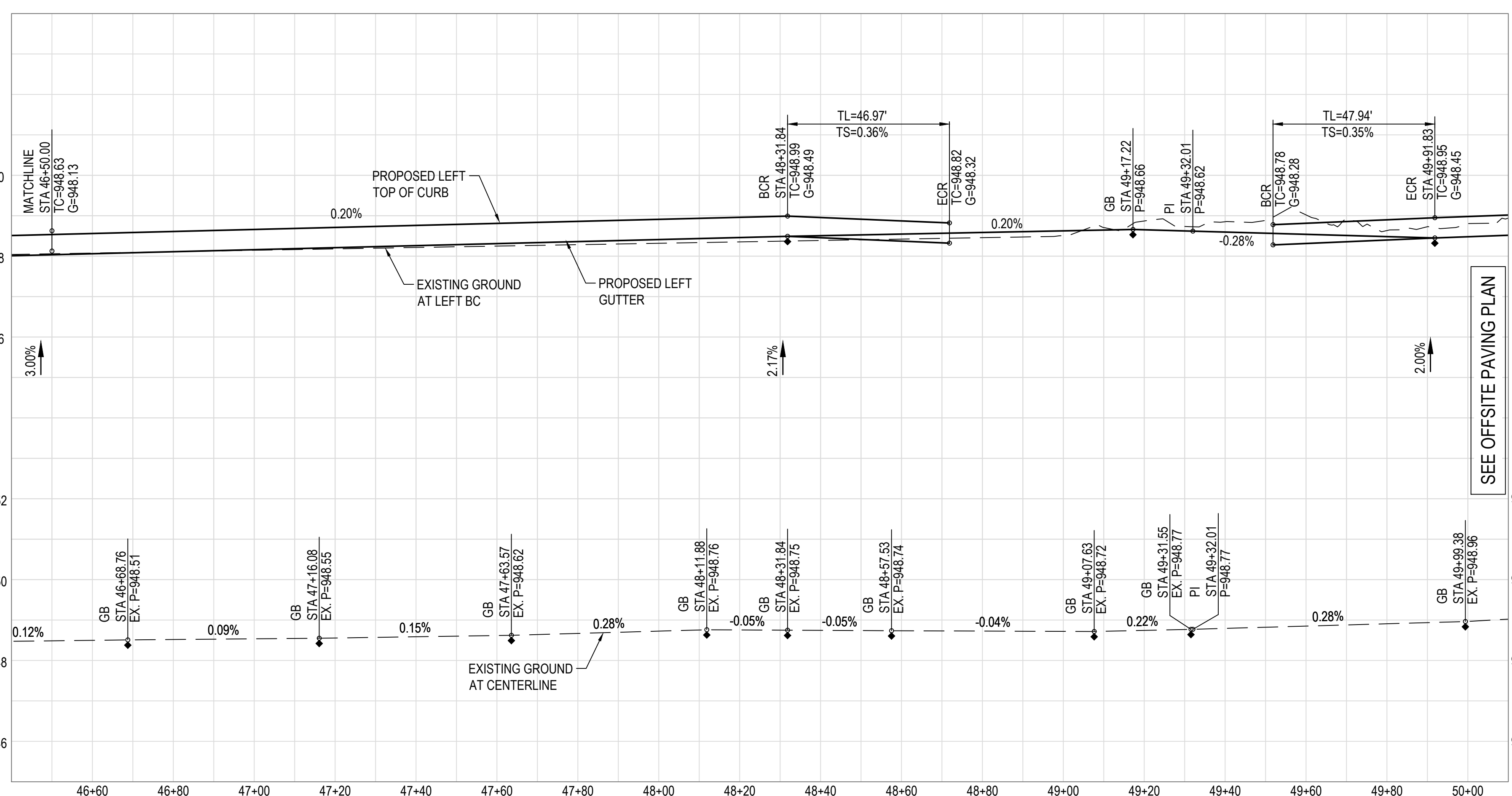
DATE: 2/1/2019
LATEST REVISION DATE:

SHEET NUMBER: 14 OF 30
PROJECT NUMBER: 174612.04

ENG 18-0208

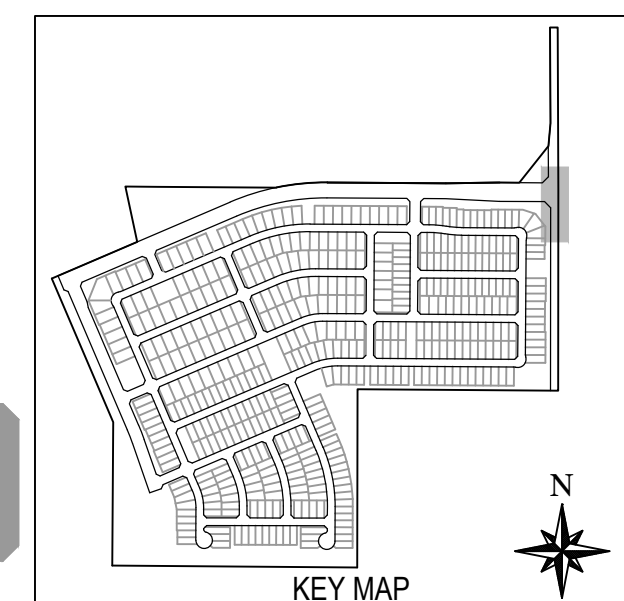


- PAVING NOTES**
- 3 INSTALL SURVEY MARKER PER M.A.G. STANDARD DETAIL 120, TYPE 'A'.
 - 5 CONSTRUCT 6" VERTICAL CURB & GUTTER PER M.A.G. STANDARD DETAIL 220-1, TYPE 'A'.
 - 12 CONSTRUCT 6" CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
 - 19 CONSTRUCT SIDEWALK RAMP PER C.O.A. STANDARD DETAIL A1235.2.
 - 29 SAWCUT AND REMOVE & REPLACE EXISTING PAVEMENT PER M.A.G. SPECIFICATIONS SECTION 310 AND 321 AND PAVEMENT SECTION PER DETAIL ON DETAIL SHEET.
 - 32 ADJUST FRAME & COVER PER C.O.A. STANDARD DETAIL A1391.
 - 44 INSTALL TRINITY T-31 W-BEAM GUARDRAIL OR APPROVED EQUAL PER DETAIL ON SHEET 20.
 - 53 INSTALL 2-2" AND 2-4" SCHEDULE 80 PVC CONDUIT WITH PULL TAPE FOR PRIMARY COMMUNICATIONS NETWORK PER CITY OF AVONDALE STANDARD DETAIL A1720-1 TRENCH DETAIL.
 - 55 INSTALL PULL BOX PER C.O.A. STANDARD DETAIL A1717.
 - 56 CONSTRUCT STREET SECTION PER M.A.G. SPECIFICATIONS SECTION 310 AND 321 AND C.O.A. STANDARD DETAIL A1103. SEE ROADWAY PAVEMENT SECTION DETAIL ON SHEET 23.
 - 60 INSTALL GUARDRAIL END TERMINAL PER DETAIL ON SHEET 11.
 - 64 INSTALL FIBER SPLICING VAULT PER C.O.A. STANDARD DETAIL A1719-1.



BACK OF CURB CURVE TABLE

CURVE	DELTA	RADIUS	ARC	TANGENT	CHORD
BC143	90°36'23"	30.00'	47.44'	30.32	42.65
BC144	89°42'39"	30.00'	46.97'	29.85	42.32



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ALAMAR

OWNER: BROOKFIELD LAKIN, LLC
PROJECT NAME: ALAMAR - PHASE 1
PLAN TYPE: PAVING, STORM DRAIN, SIGNING AND MARKING PLAN
PROJECT LOCATION: AVONDALE BLVD, BROADWAY RD, AND ALAMAR PARKWAY

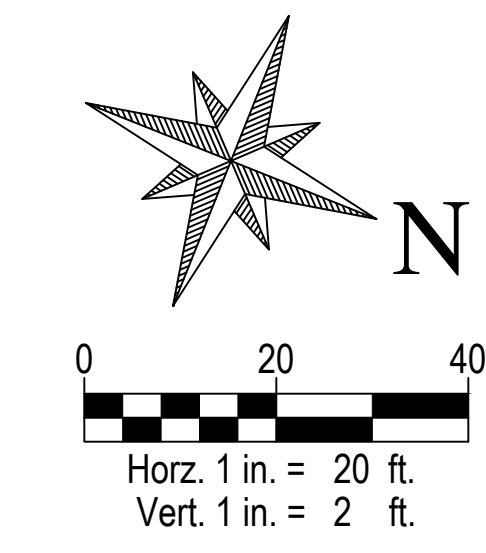
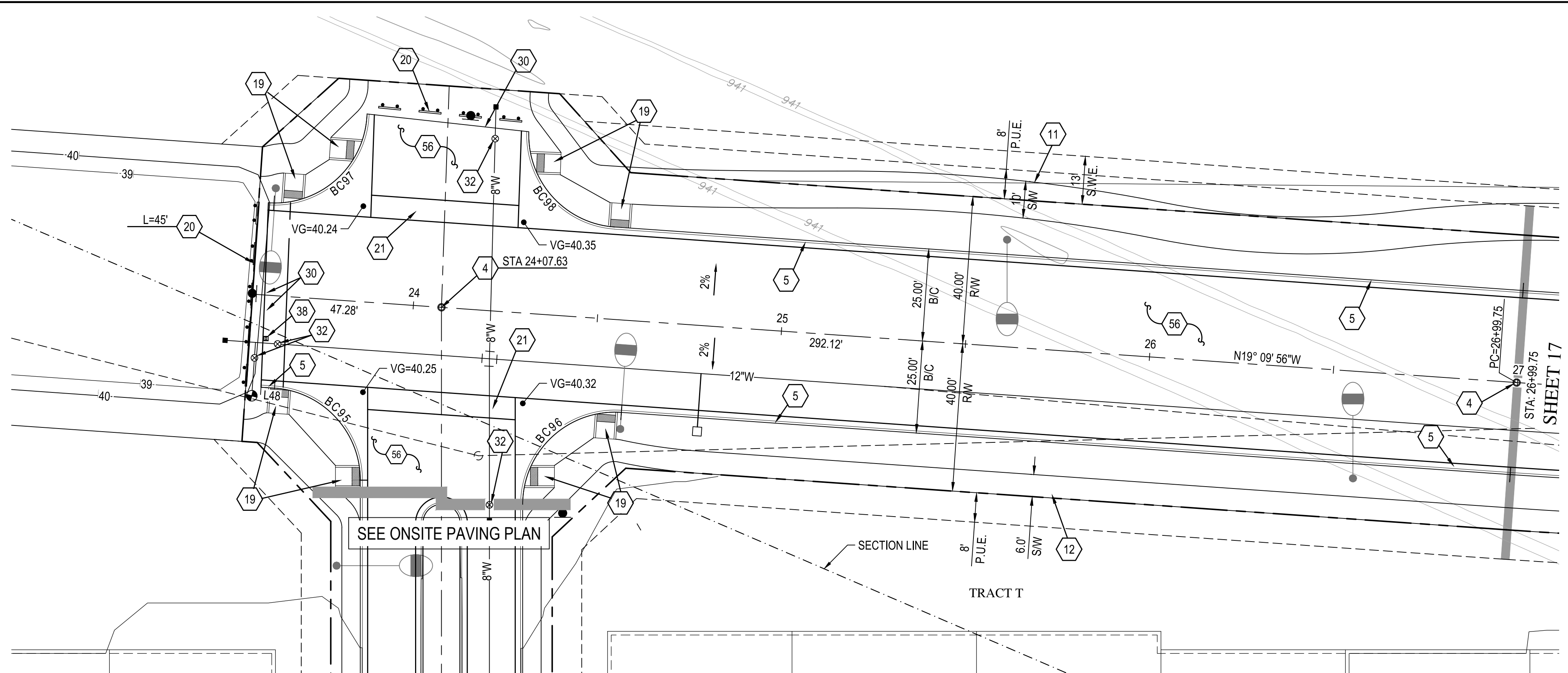
DESIGNER: BROOKFIELD LAKIN, LLC
DATE: 2/11/2019
LATEST REVISION DATE: 2/11/2019

SHEET NUMBER: 15 OF 30
PROJECT NUMBER: 174612.04

EXPRES 12-31-21

ENGINEER: FRANK MINGENHOO
EXPIRES 2/11/2019

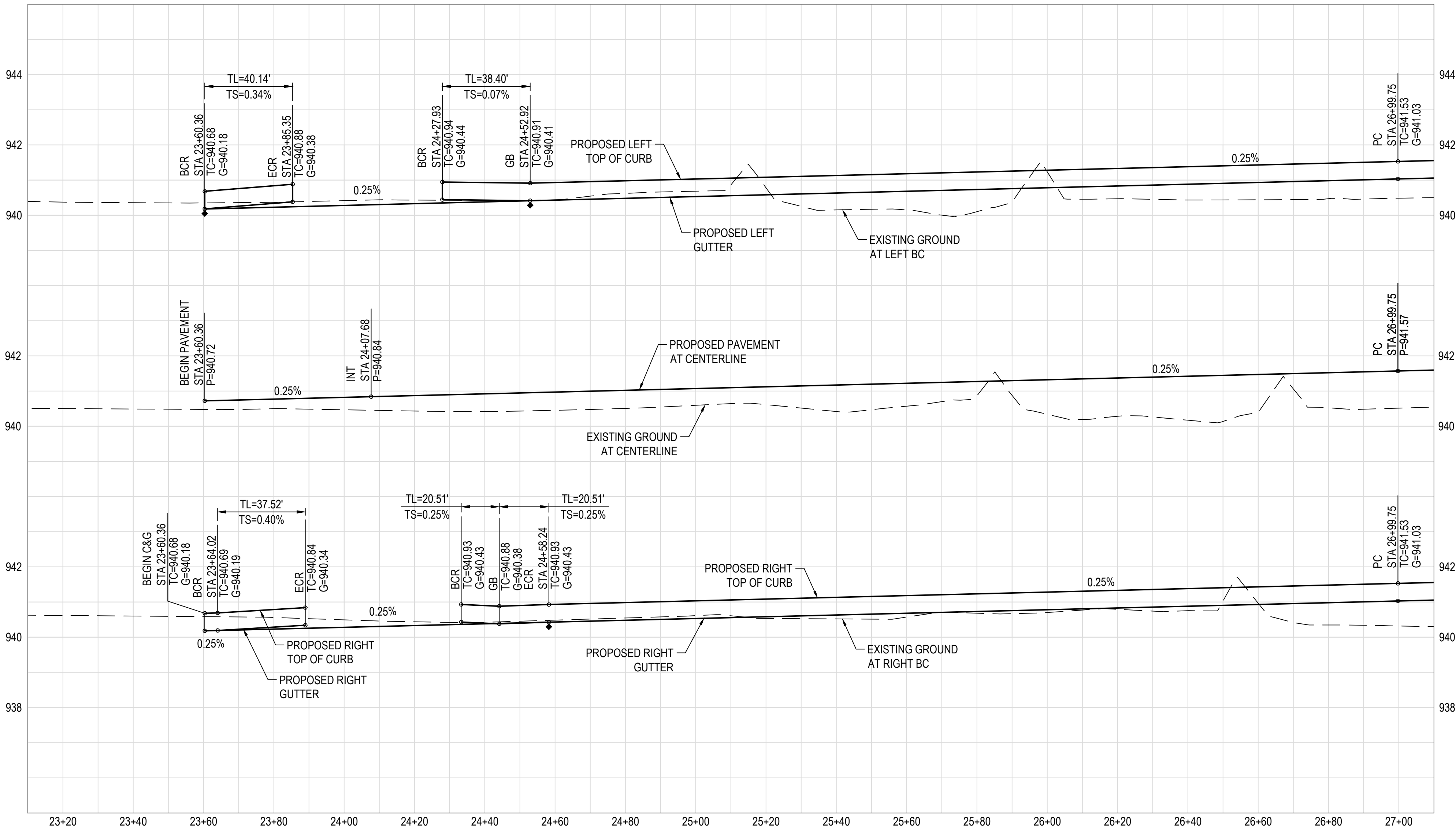
ENG 18-0208



SEE SHEET 20 FOR STREET SECTIONS

ALAMAR PARKWAY

- PAVING NOTES**
- 4 INSTALL SURVEY MARKER PER M.A.G. STANDARD DETAIL 120, TYPE 'B'.
 - 5 CONSTRUCT 6" VERTICAL CURB & GUTTER PER M.A.G. STANDARD DETAIL 220-1, TYPE 'A'.
 - 11 CONSTRUCT 10' CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
 - 12 CONSTRUCT 6' CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
 - 19 CONSTRUCT SIDEWALK RAMP PER C.O.A. STANDARD DETAIL A1235.2.
 - 20 INSTALL BARRICADE PER M.A.G. STANDARD DETAIL 130, TYPE 'B'. LENGTH OF BARRICADE PER PLAN.
 - 21 CONSTRUCT 6" VALLEY GUTTER AND APRON PER M.A.G. STANDARD DETAIL 240.
 - 30 CONSTRUCT ASPHALT PAVEMENT EDGE PER M.A.G. STANDARD DETAIL 201, TYPE 'A'.
 - 32 ADJUST FRAME & COVER PER C.O.A. STANDARD DETAIL A1391.
 - 38 INSTALL FIRE HYDRANT MARKER PER C.O.A. STANDARD DETAIL A1609.
 - 56 CONSTRUCT STREET SECTION PER M.A.G. SPECIFICATIONS SECTION 310 AND 321 AND C.O.A. STANDARD DETAIL A1103. SEE ROADWAY PAVEMENT SECTION DETAIL ON SHEET 23.

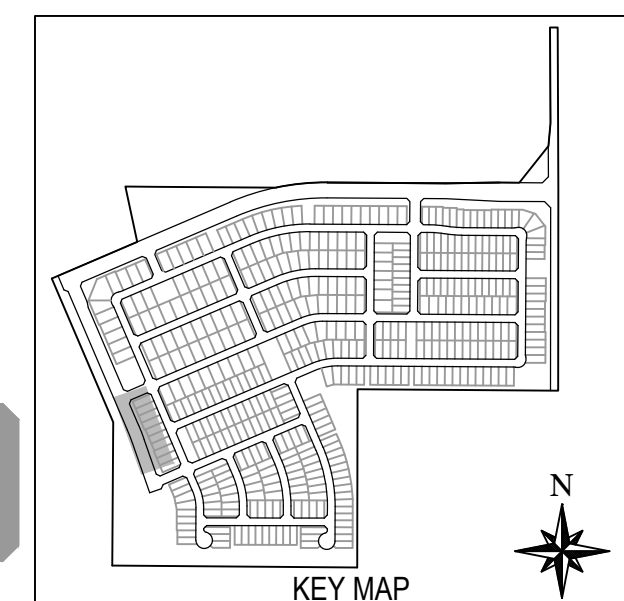


BACK OF CURB LINE TABLE

LINE	BEARING	DISTANCE
L48	S19°09'56"E	3.66'

BACK OF CURB CURVE TABLE

CURVE	DELTA	RADIUS	ARC	TANGENT	CHORD
BC95	86°00'00"	25.00'	37.52'	23.31	34.10
BC96	94°00'00"	25.00'	41.02'	26.81	36.57
BC97	92°00'00"	25.00'	40.14'	25.89	35.97
BC98	88°00'00"	25.00'	38.40'	24.14	34.73



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ALAMAR

BROOKFIELD LAKIN, LLC
OWNER

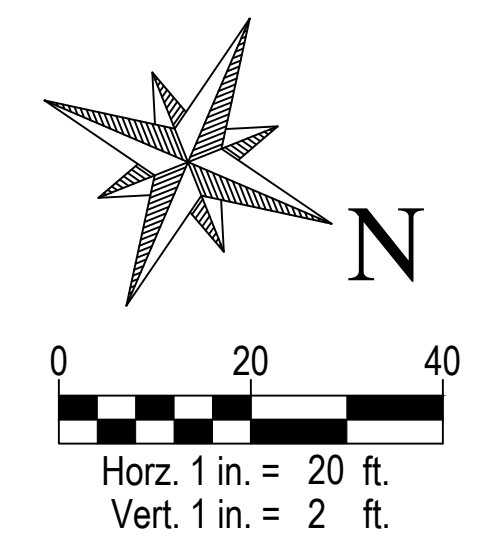
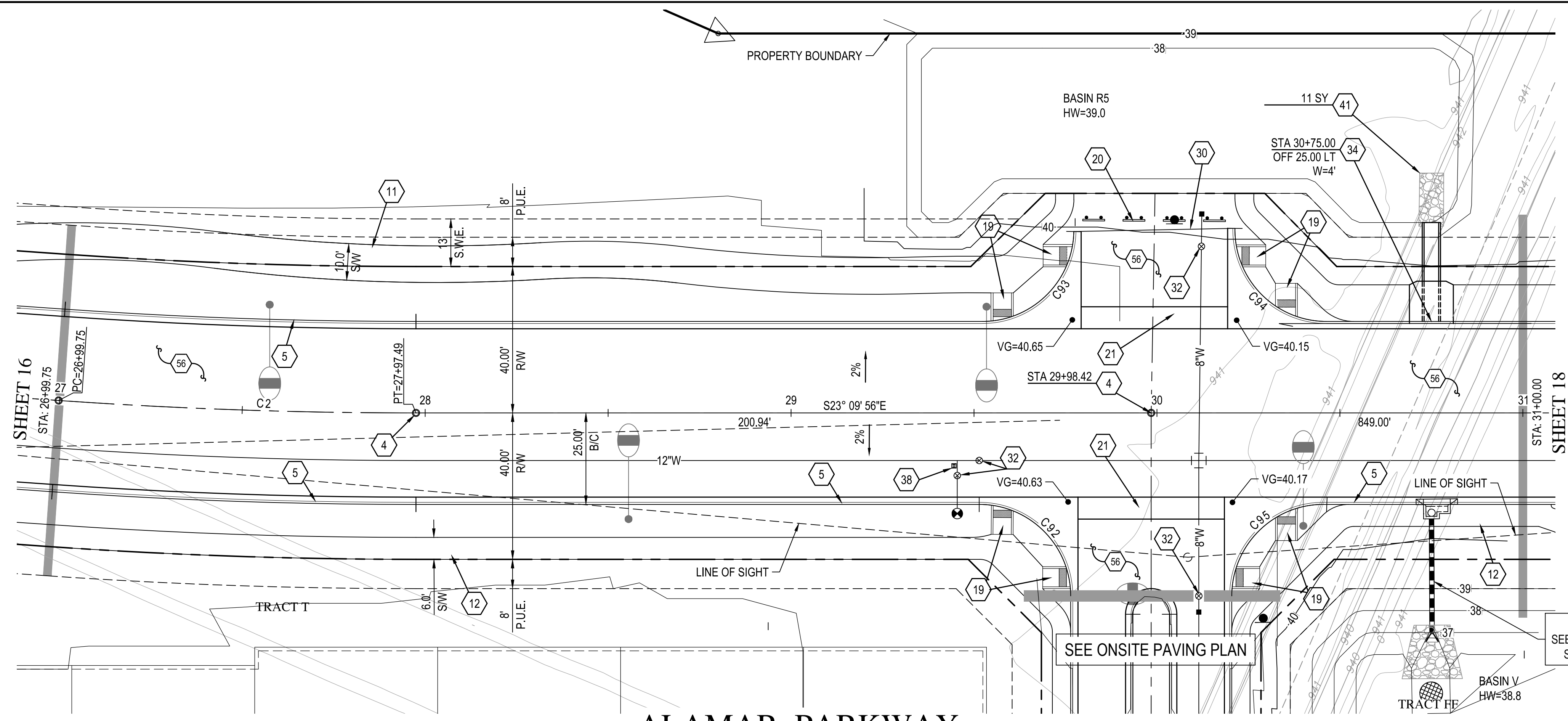
ALAMAR - PHASE 1
PAVING, STORM DRAIN, SIGNING AND MARKING PLAN
AVONDALE BLVD, BROADWAY RD, AND ALAMAR PARKWAY

PROFESSIONAL ENGINEER
FRANK MINGENKOO
3185
EXPIRES 12-31-21
2/11/2019

SHEET NUMBER
16 OF 30

PROJECT NUMBER
174612.04

EXP 18-0208

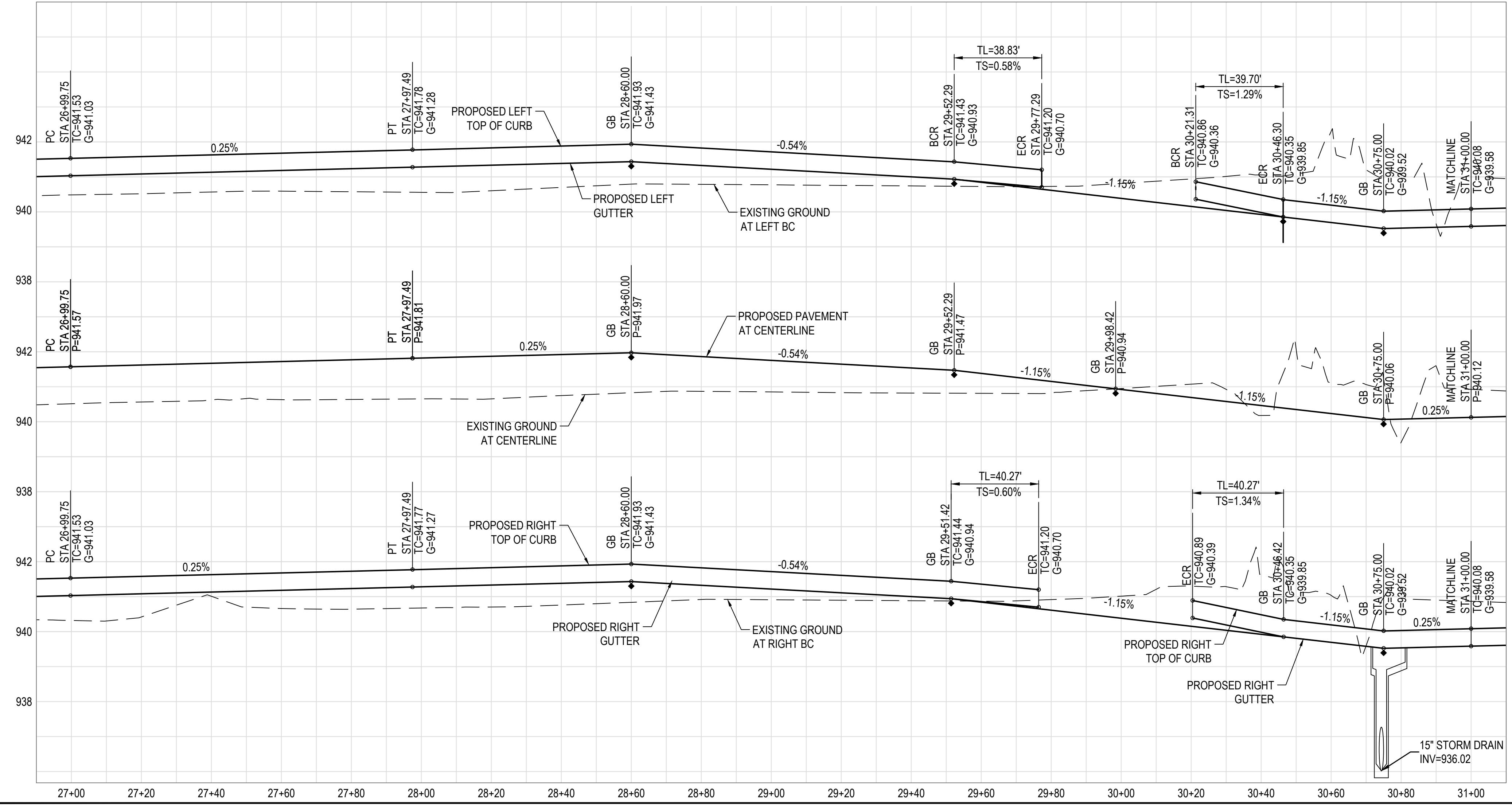


SEE SHEET 20 FOR STREET SECTIONS

PAVING NOTES

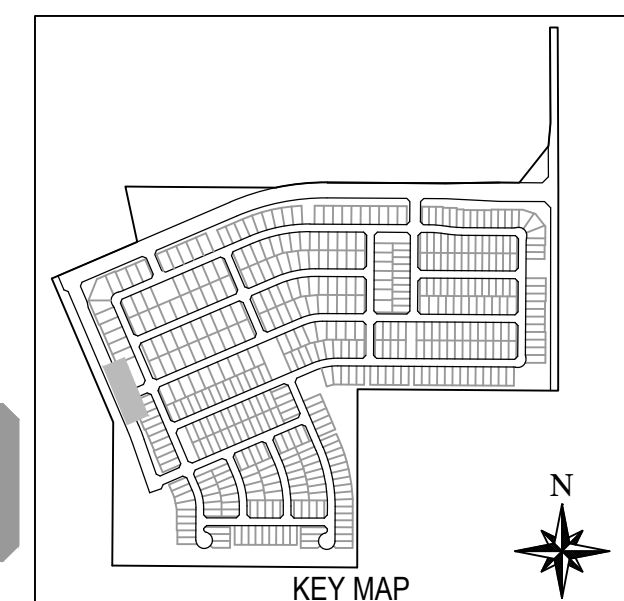
- 4 INSTALL SURVEY MARKER PER M.A.G. STANDARD DETAIL 120, TYPE 'B'.
- 5 CONSTRUCT 6" VERTICAL CURB & GUTTER PER M.A.G. STANDARD DETAIL 220-1, TYPE 'A'.
- 11 CONSTRUCT 10' CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
- 12 CONSTRUCT 6" CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
- 19 CONSTRUCT SIDEWALK RAMP PER C.O.A. STANDARD DETAIL A1235.2.
- 20 INSTALL BARRICADE PER M.A.G. STANDARD DETAIL 130, TYPE 'B'. LENGTH OF BARRICADE PER PLAN.
- 21 CONSTRUCT 6" VALLEY GUTTER AND APRON PER M.A.G. STANDARD DETAIL 240.
- 30 CONSTRUCT ASPHALT PAVEMENT EDGE PER M.A.G. STANDARD DETAIL 201, TYPE 'A'.
- 32 ADJUST FRAME & COVER PER C.O.A. STANDARD DETAIL A1391.
- 33 CONSTRUCT SCUPPER PER M.A.G. STANDARD DETAIL 206-1 AND 206-2 (WIDTH PER PLAN) AND HAND RAIL PER M.A.G. STANDARD DETAIL 145 TYPE I. SEE SCUPPER CHANNEL DETAIL ON DETAIL SHEET.
- 38 INSTALL FIRE HYDRANT MARKER PER C.O.A. STANDARD DETAIL A1609.
- 41 CONSTRUCT TYPE I LOOSE RIP-RAP PROTECTION PER GRADATION TABLE ON DETAIL SHEET. THICKNESS = 12"
- 56 CONSTRUCT STREET SECTION PER M.A.G. SPECIFICATIONS SECTION 310 AND 321 AND C.O.A. STANDARD DETAIL A1103. SEE ROADWAY PAVEMENT SECTION DETAIL ON SHEET 23.

ALAMAR PARKWAY



CURVE TABLE			
CURVE	DELTA	RADIUS	ARC
C2	4°00'00"	1400.00'	97.74'

BACK OF CURB CURVE TABLE					
CURVE	DELTA	RADIUS	ARC	TANGENT	CHORD
C92	90°00'00"	25.00'	39.27'	25.00	35.36
C93	89°00'00"	25.00'	38.83'	24.57	35.05
C94	91°00'00"	25.00'	39.71'	25.44	35.66
C95	90°00'00"	25.00'	39.27'	25.00	35.36



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ALAMAR

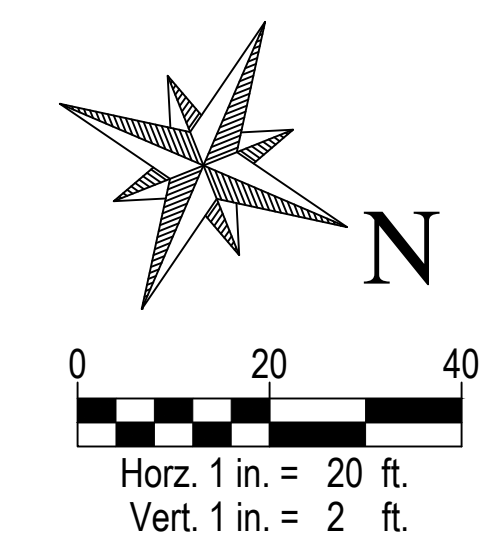
DEVELOPER: BROOKFIELD LAKIN, LLC
PROJECT NAME: ALAMAR - PHASE 1
PLAN TYPE: PAVING, STORM DRAIN, SIGNING AND MARKING PLAN
AVONDALE BLVD, BROADWAY RD, AND ALAMAR PARKWAY

SEAL: PROFESSIONAL ENGINEER
FRANK MINGRENGO
No. 31985
EXPIRES 12-31-21

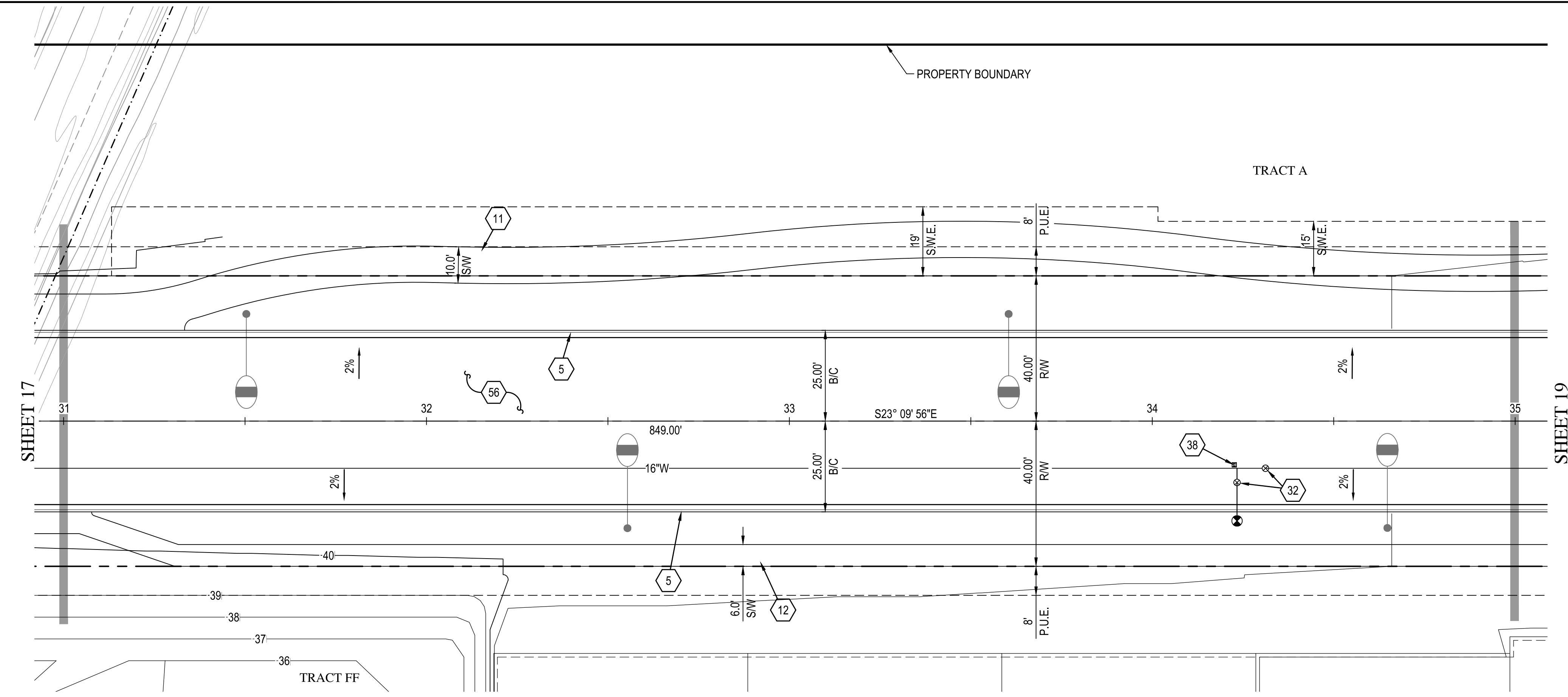
DATE: 2/11/2019
LATEST REVISION DATE:

SHEET NUMBER: 17 OF 30
PROJECT NUMBER: 174612.04

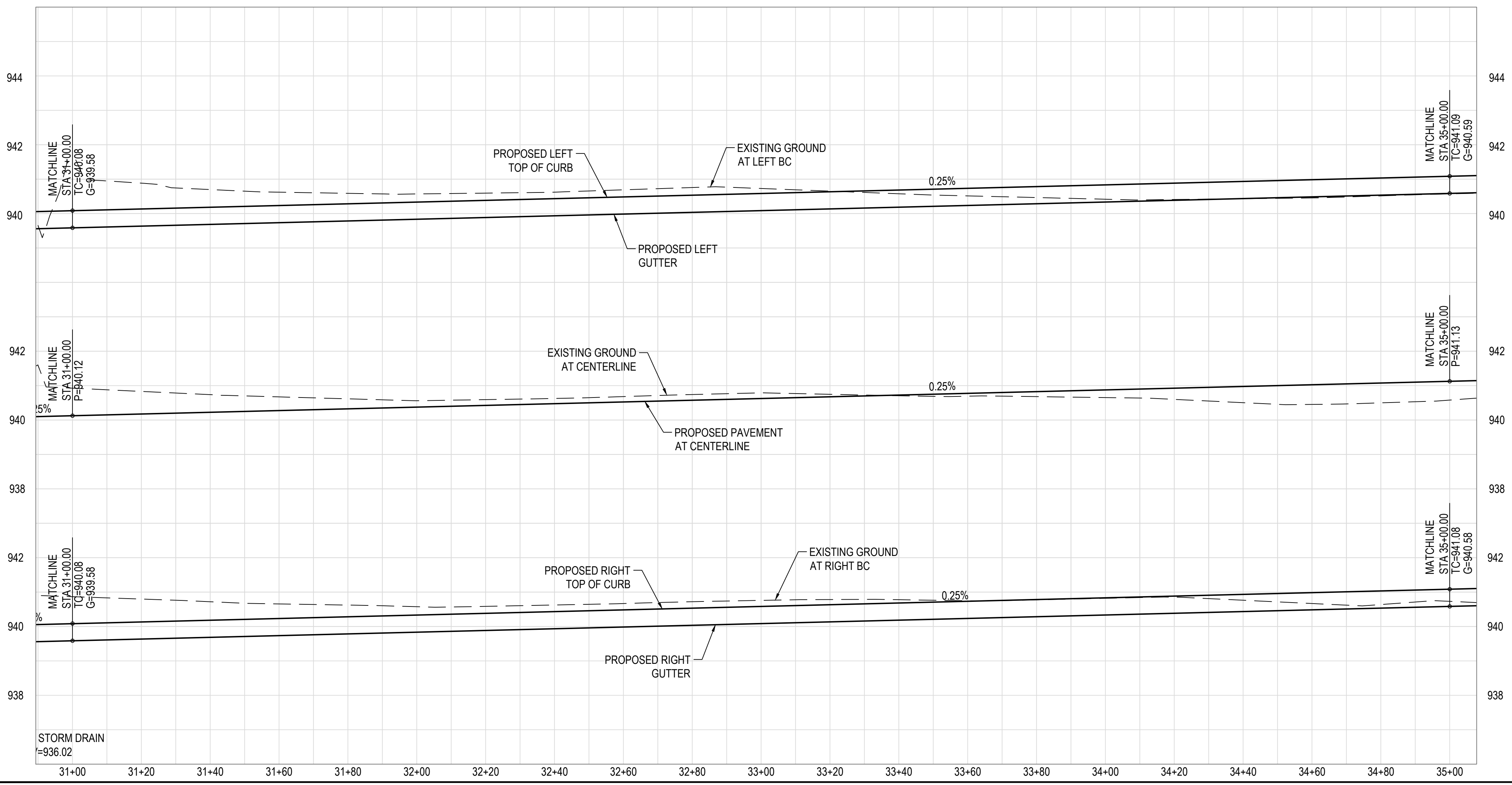
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SEE SHEET 20 FOR STREET SECTIONS

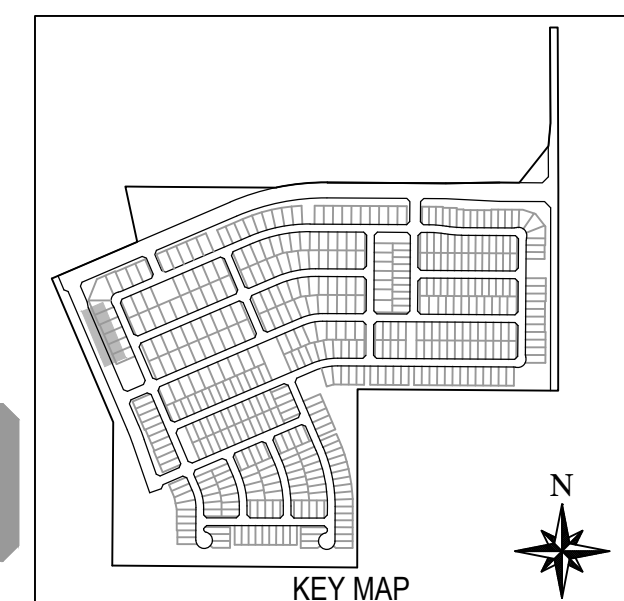


ALAMAR PARKWAY



- PAVING NOTES**
- ① CONSTRUCT STREET SECTION PER M.A.G. SPECIFICATIONS SECTION 310 AND 321. SEE ROADWAY PAVEMENT SECTION DETAIL ON SHEET 36.
 - ⑤ CONSTRUCT 6" VERTICAL CURB & GUTTER PER M.A.G. STANDARD DETAIL 220-1, TYPE "A".
 - ⑪ CONSTRUCT 10' CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
 - ⑫ CONSTRUCT 6' CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
 - ⑬ ADJUST FRAME & COVER PER C.O.A. STANDARD DETAIL A1391.
 - ⑰ INSTALL FIRE HYDRANT MARKER PER C.O.A. STANDARD DETAIL A1609.
 - ⑵ CONSTRUCT STREET SECTION PER M.A.G. SPECIFICATIONS SECTION 310 AND 321 AND C.O.A. STANDARD DETAIL A1103. SEE ROADWAY PAVEMENT SECTION DETAIL ON SHEET 23.

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ALAMAR

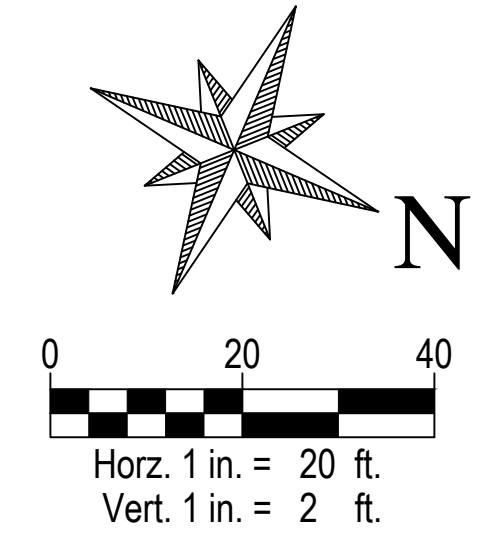
DEVELOPER: BROOKFIELD LAKIN, LLC
PROJECT NAME: ALAMAR - PHASE 1
PLAN TYPE: PAVING, STORM DRAIN, SIGNING AND MARKING PLAN
AVONDALE BLVD, BROADWAY RD, AND ALAMAR PARKWAY

PROFESSIONAL ENGINEER
FRANK MINGENGO
31985
MAY 21, 2019
EXPIRES 12-31-21

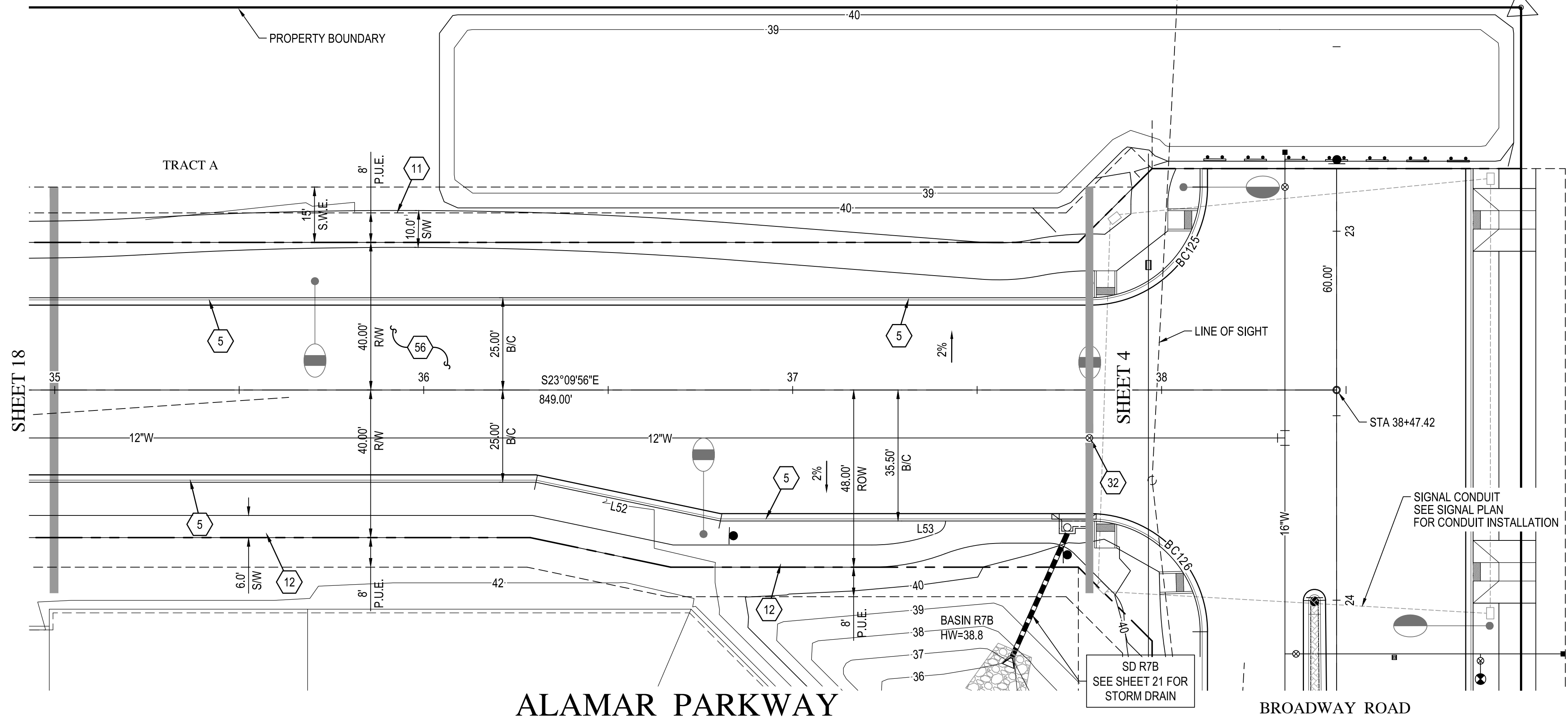
2/11/2019

SHEET NUMBER: 18 OF 30
PROJECT NUMBER: 174612.04

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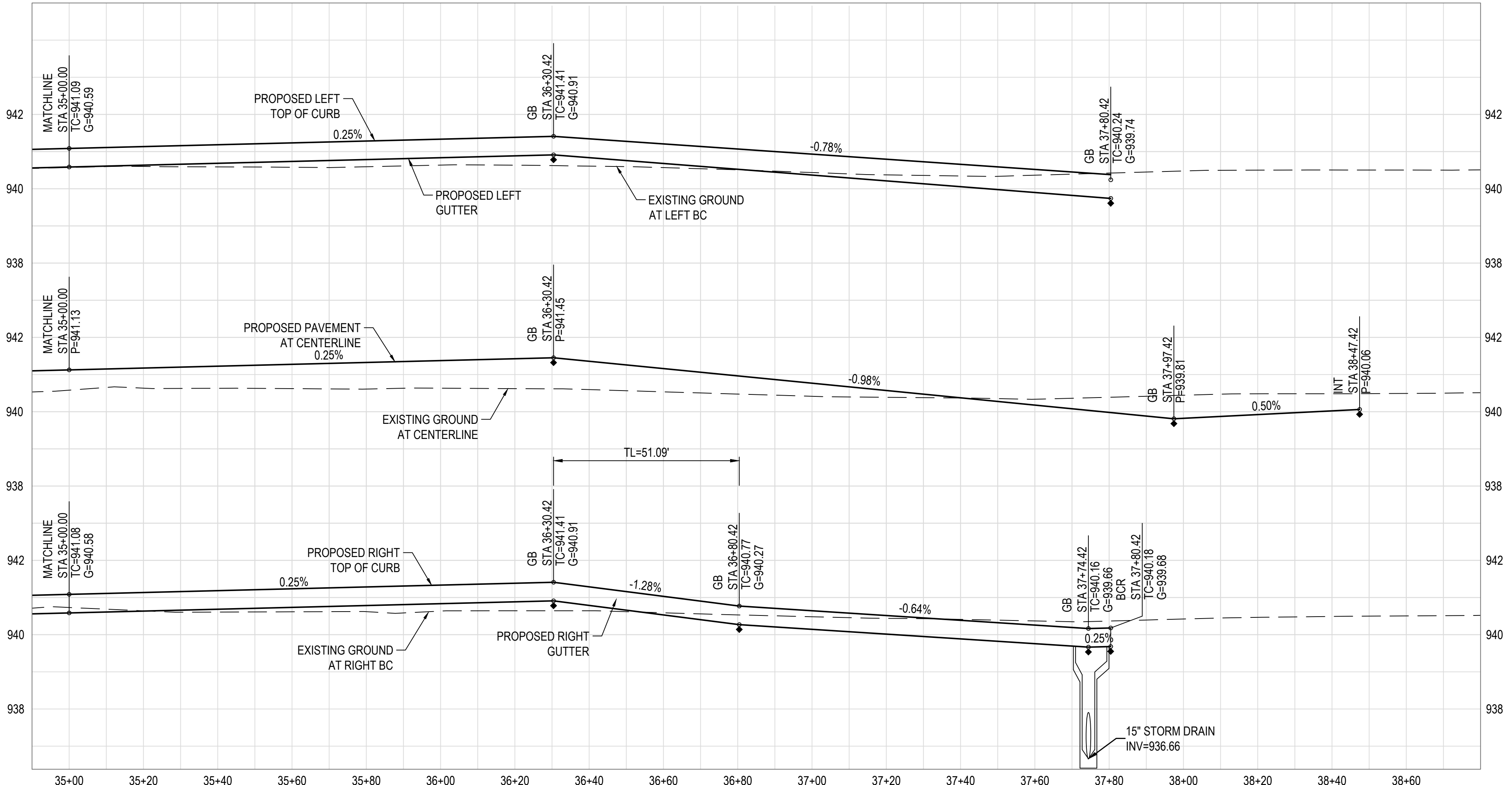
SEE SHEET 20 FOR STREET SECTIONS



ALAMAR PARKWAY

BROADWAY ROAD

- PAVING NOTES**
- 5 CONSTRUCT 6" VERTICAL CURB & GUTTER PER M.A.G. STANDARD DETAIL 220-1, TYPE "A".
 - 11 CONSTRUCT 10" CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
 - 12 CONSTRUCT 6" CONCRETE SIDEWALK PER M.A.G. STANDARD DETAIL 230.
 - 32 ADJUST FRAME & COVER PER C.O.A. STANDARD DETAIL A1391.
 - 56 CONSTRUCT STREET SECTION PER M.A.G. SPECIFICATIONS SECTION 310 AND 321 AND C.O.A. STANDARD DETAIL A1103. SEE ROADWAY PAVEMENT SECTION DETAIL ON SHEET 23.

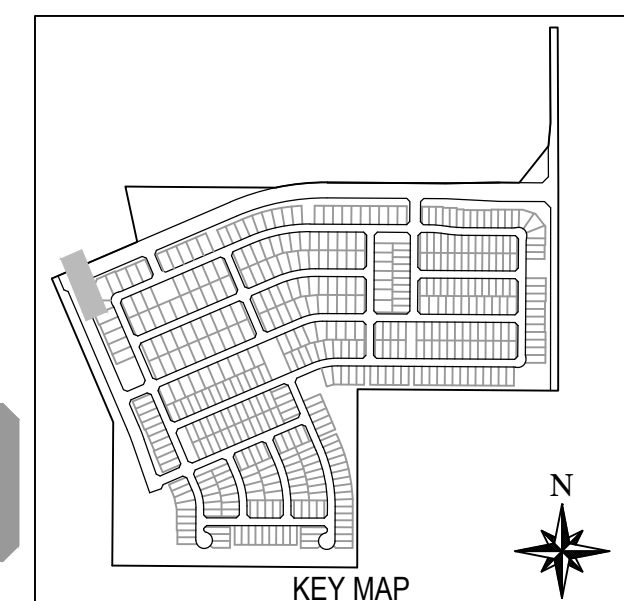


BACK OF CURB LINE TABLE

LINE	BEARING	DISTANCE
L52	S11°18'20"E	51.09'
L53	S23°09'56"E	100.00'

BACK OF CURB CURVE TABLE

CURVE	DELTA	RADIUS	ARC	TANGENT	CHORD
BC125	90°00'00"	30.00'	47.12'	30.00'	42.43'
BC126	90°00'00"	30.00'	47.12'	30.00'	42.43'

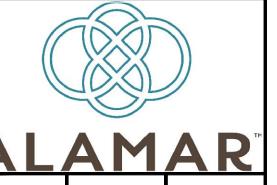


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SCALE (HORIZ.) 1" = 20'
SCALE (VERT.) 1" = 2'

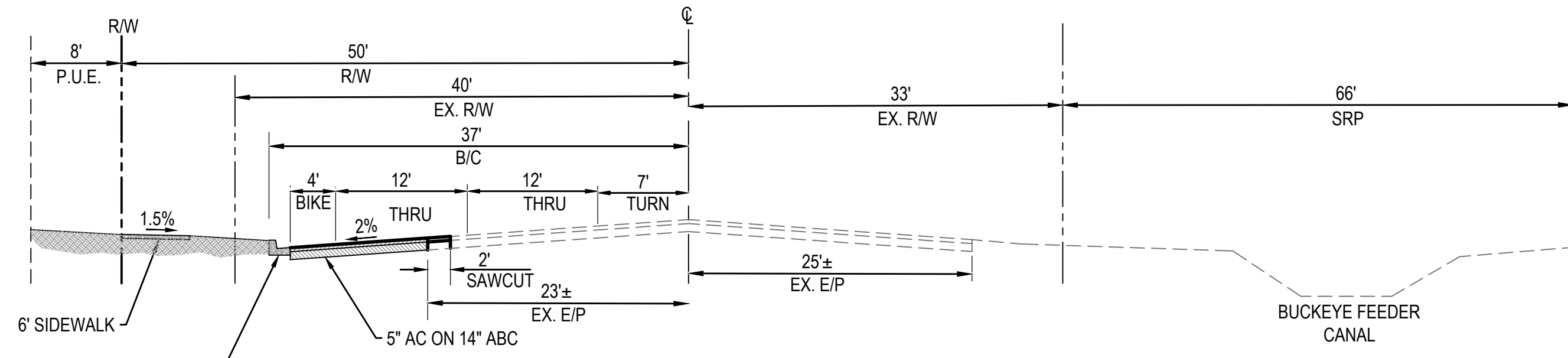
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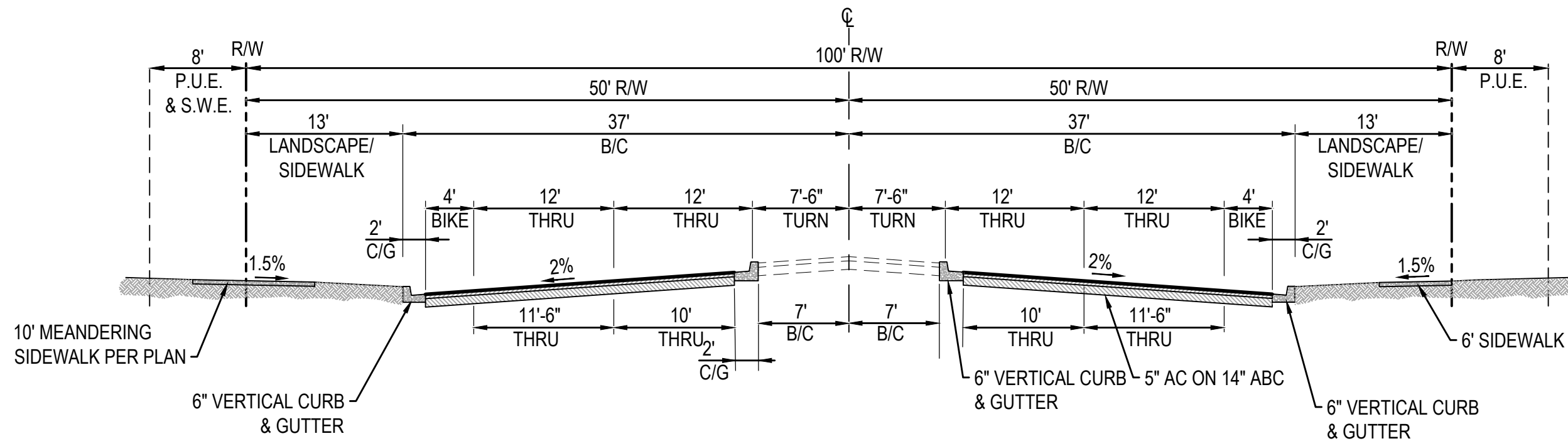
BROOKFIELD LAKIN, LLC
ALAMAR - PHASE 1
PAVING, STORM DRAIN, SIGNING AND MARKING PLAN
AVONDALE BLVD, BROADWAY RD, AND ALAMAR PARKWAY



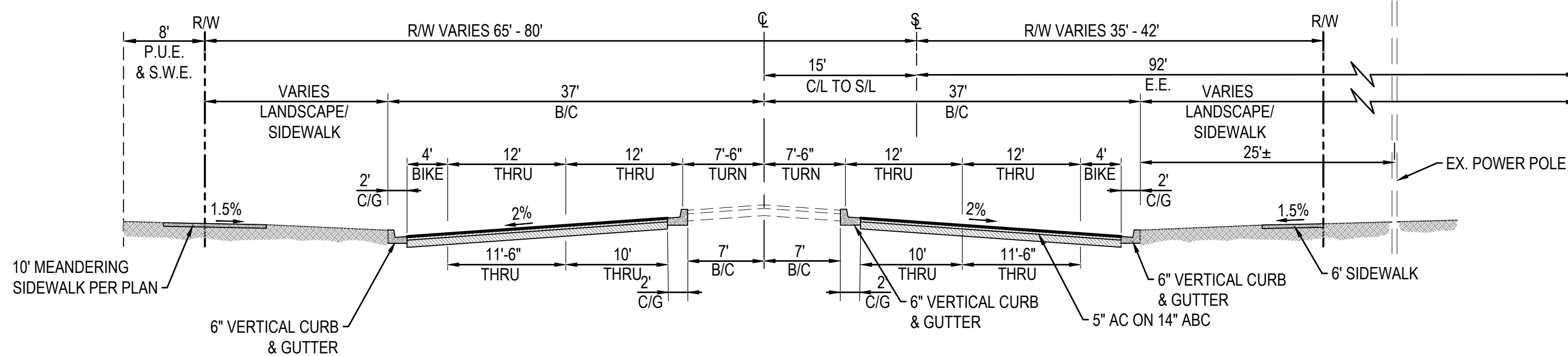
DATE: 2/11/2019
SHEET NUMBER: 19 OF 30
PROJECT NUMBER: 174612.04



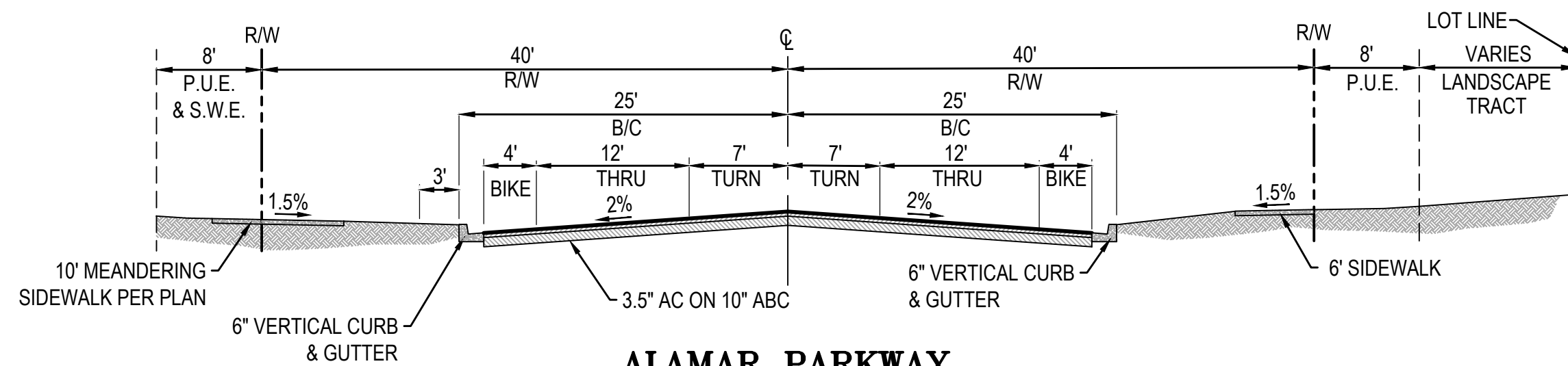
**AVONDALE BLVD
(MINOR ARTERIAL)**
LOOKING NORTH
N.T.S.



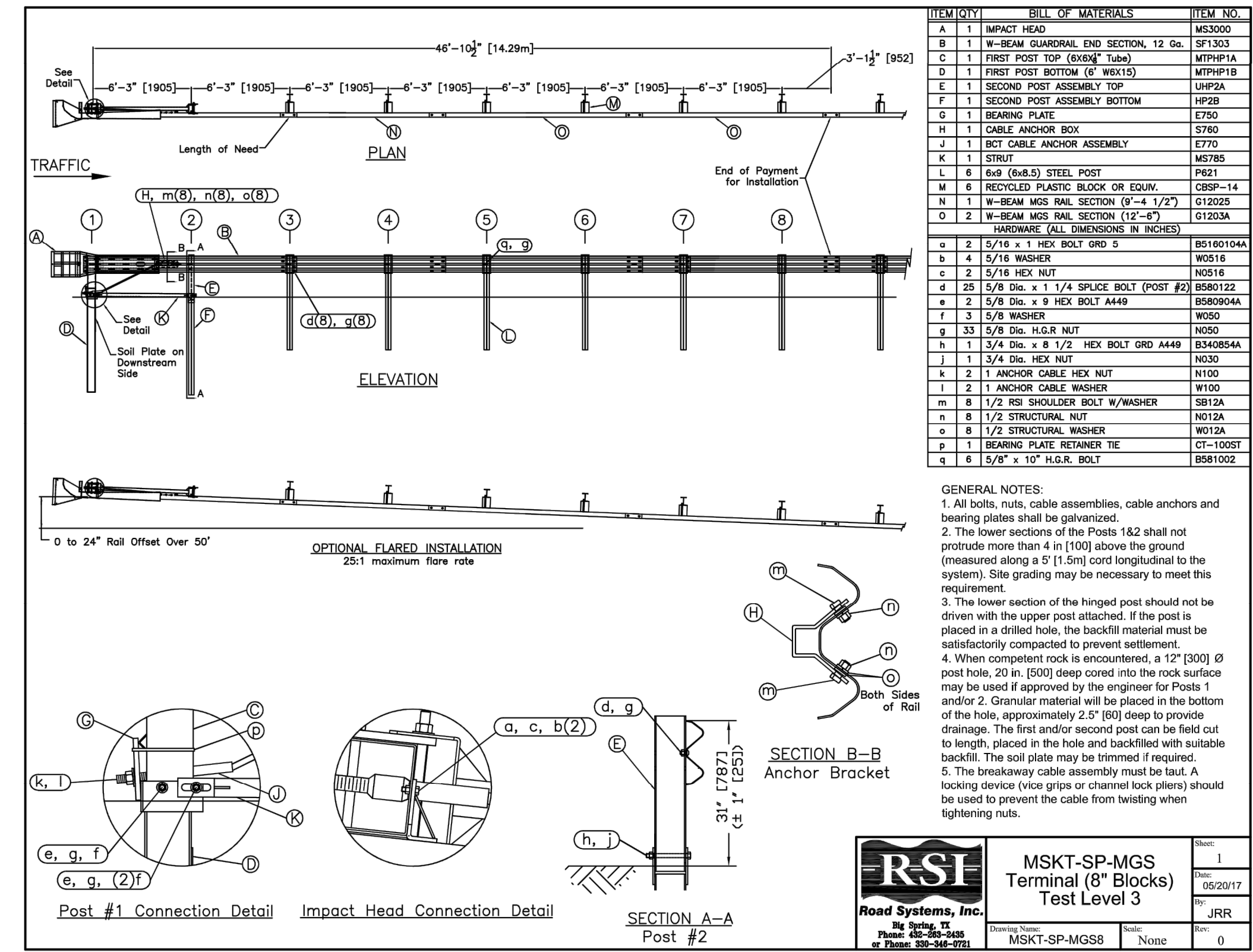
**BROADWAY ROAD #1
(MINOR ARTERIAL)**
LOOKING WEST
N.T.S.



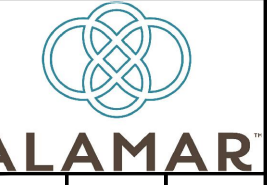
**BROADWAY ROAD #2
(MINOR ARTERIAL)**
115th LANE to AVONDALE BLVD.
LOOKING WEST
N.T.S.



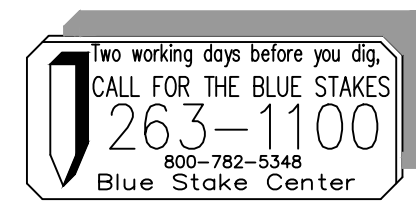
**ALAMAR PARKWAY
(MINOR COLLECTOR)**
LOOKING NORTH
N.T.S.



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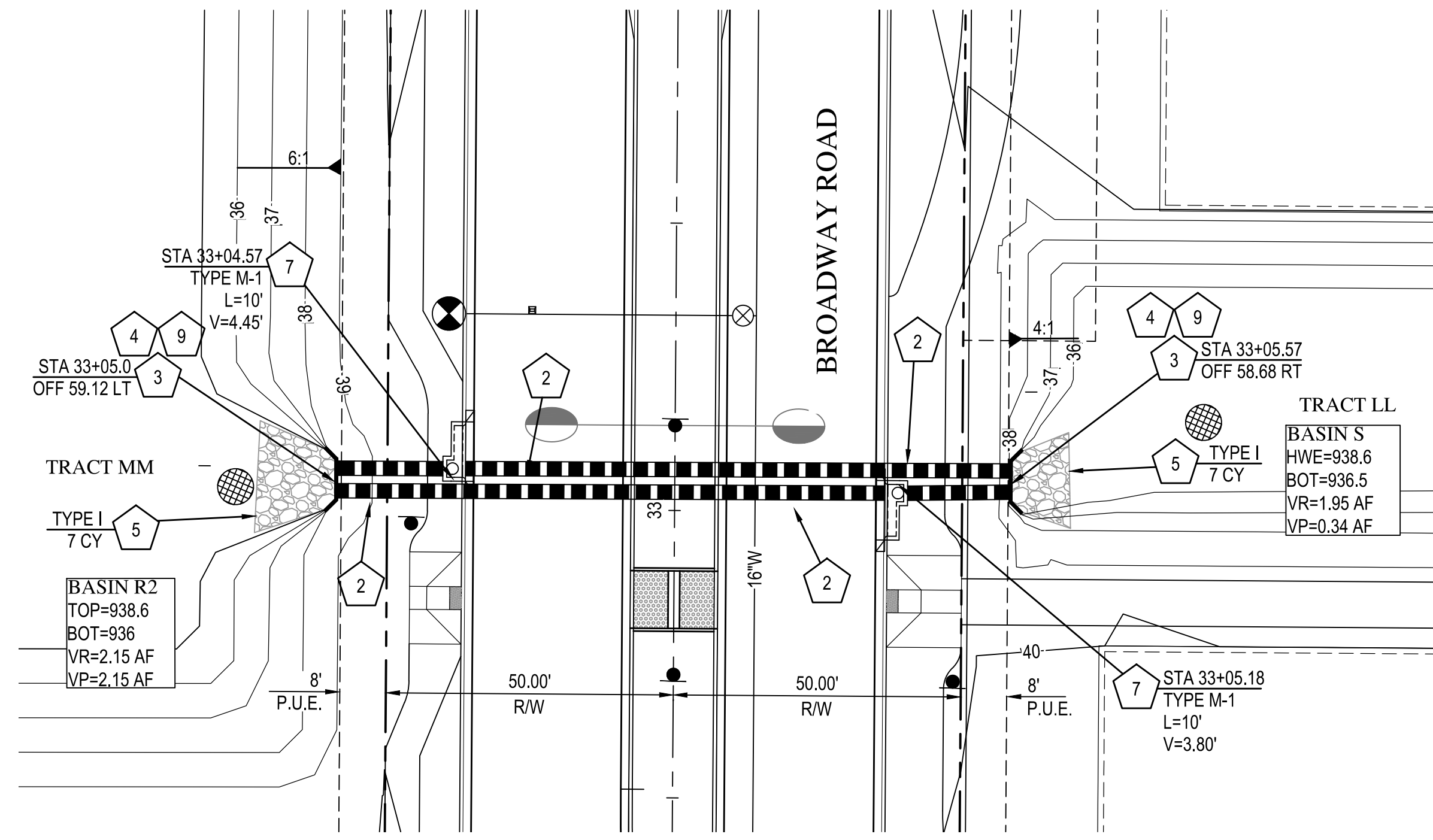
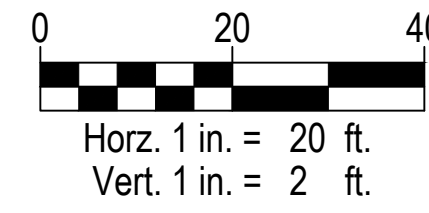


BROOKFIELD LAKIN, LLC
ALAMAR - PHASE 1
PAVING, STORM DRAIN, SIGNING AND MARKING PLAN
AVONDALE BLVD, BROADWAY RD, AND ALAMAR PARKWAY

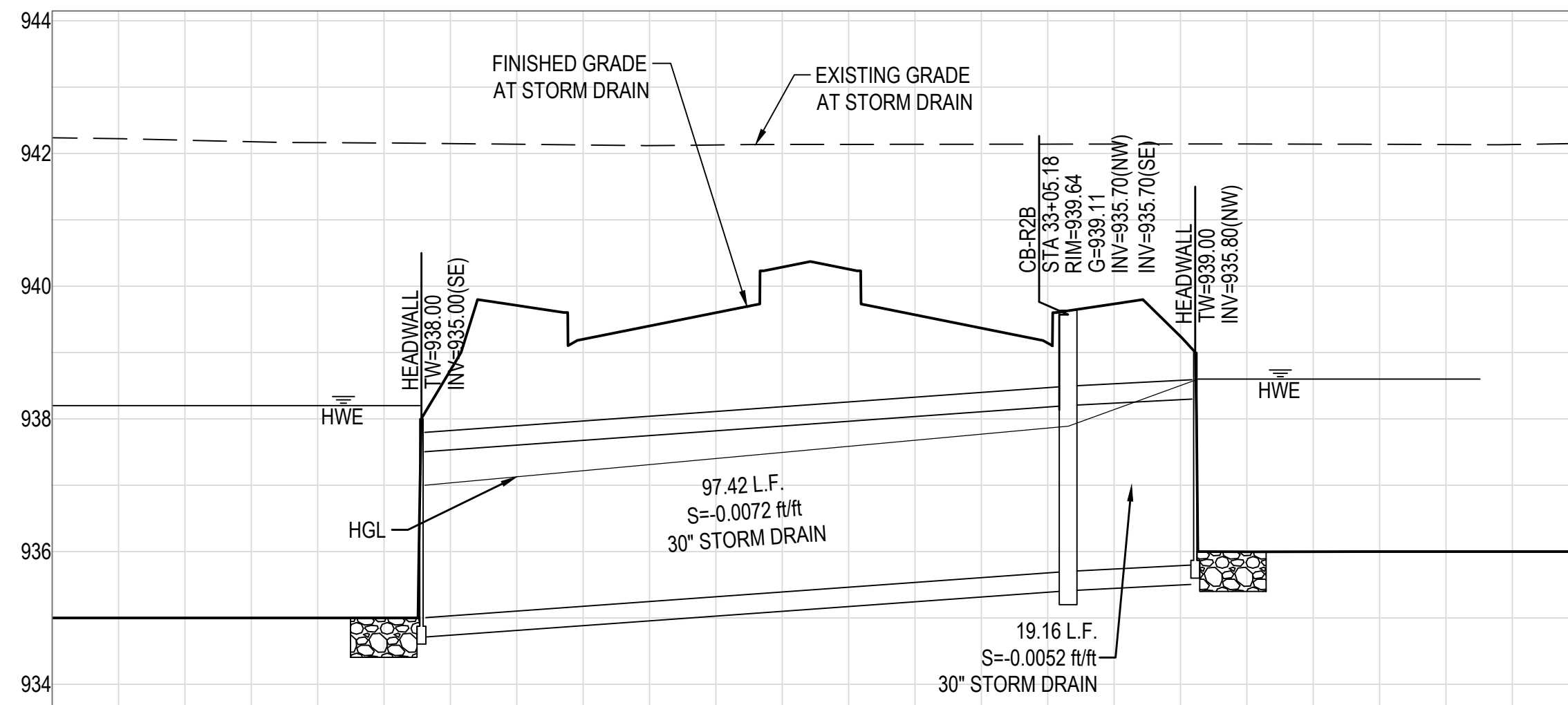


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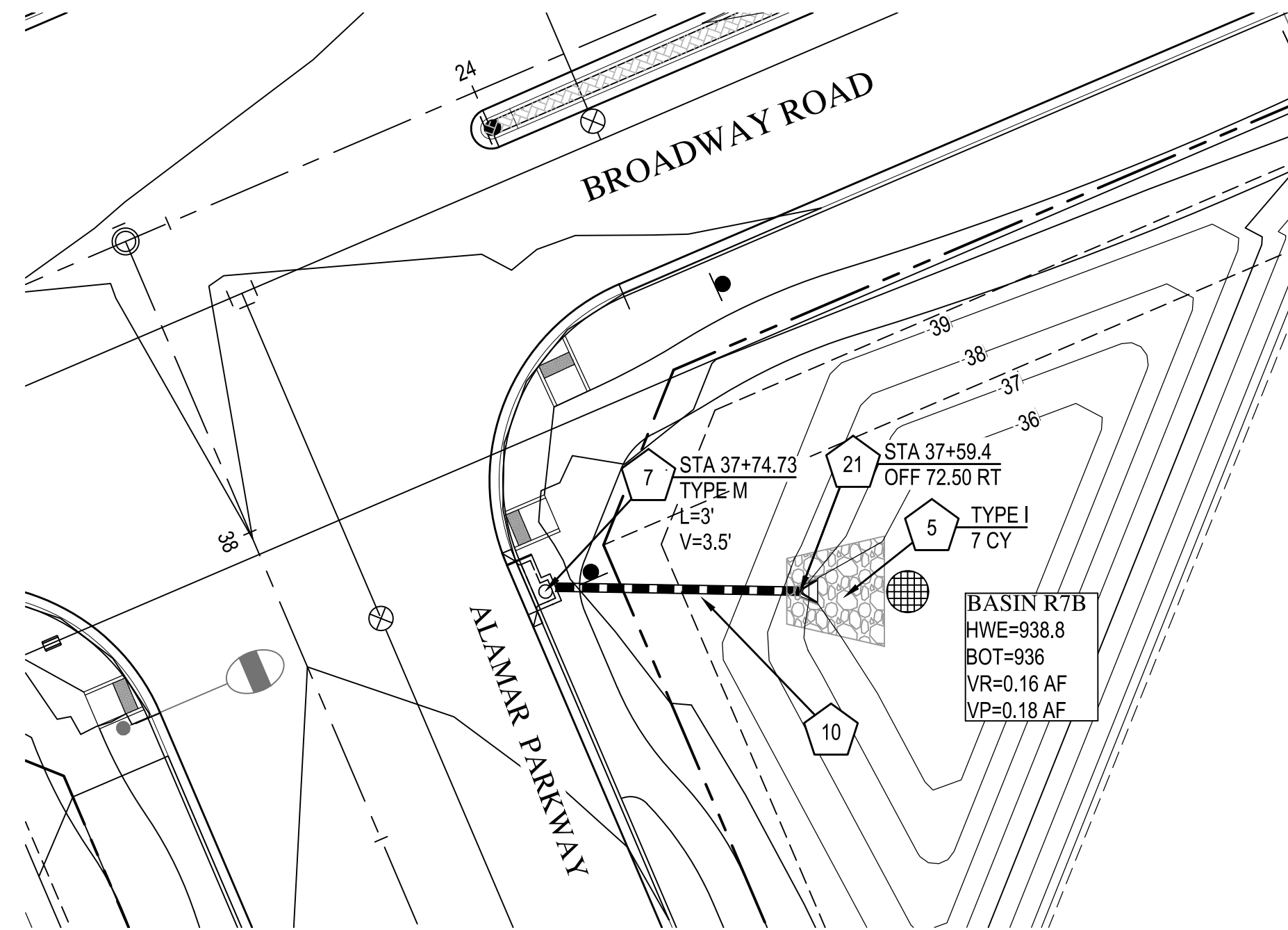
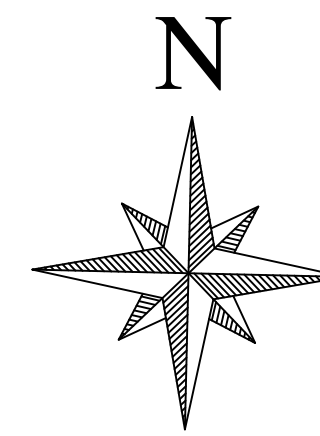
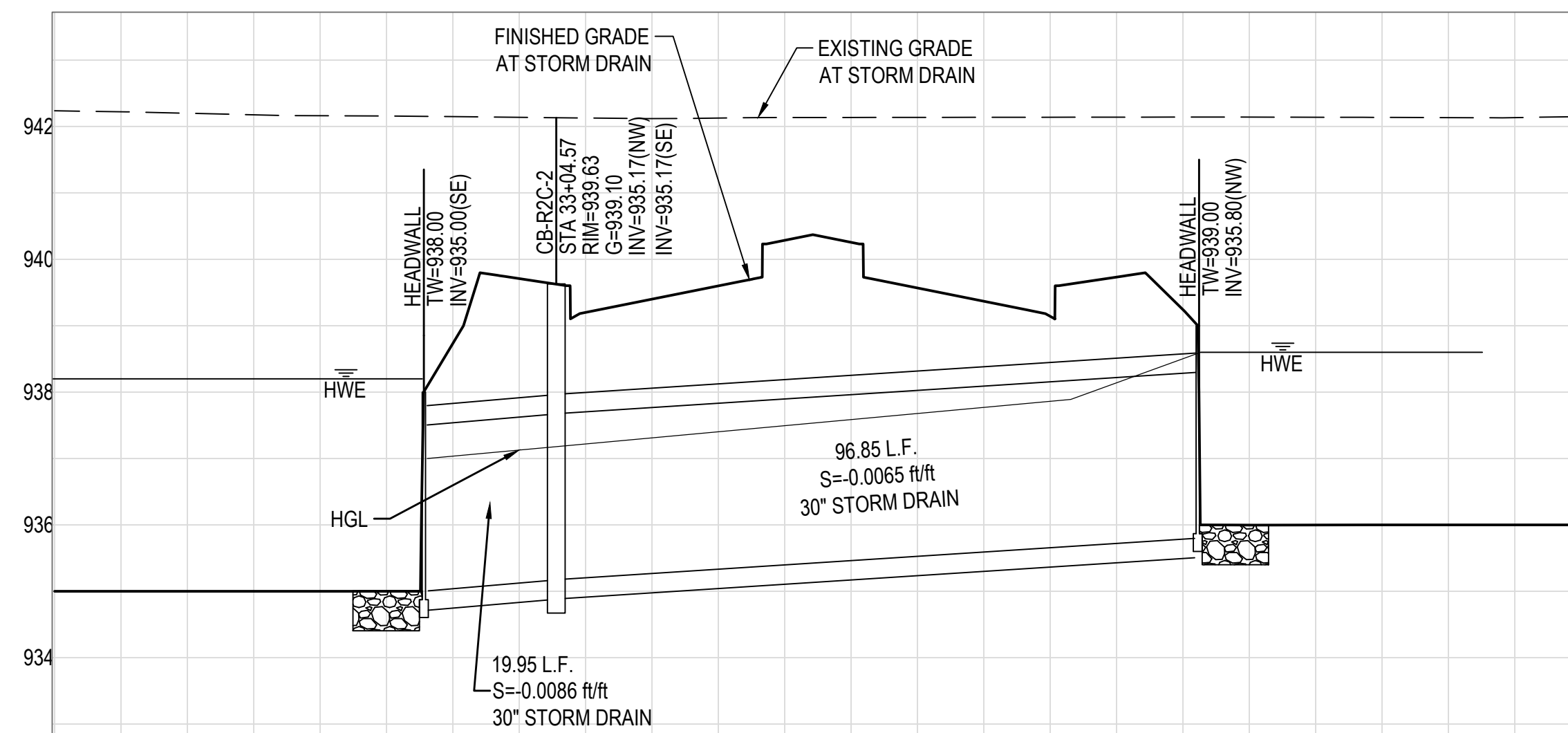
PLAN DATE: 2/11/2019
LATEST REVISION DATE:
SHEET NUMBER: 20 OF 30
PROJECT NUMBER: 174612.04



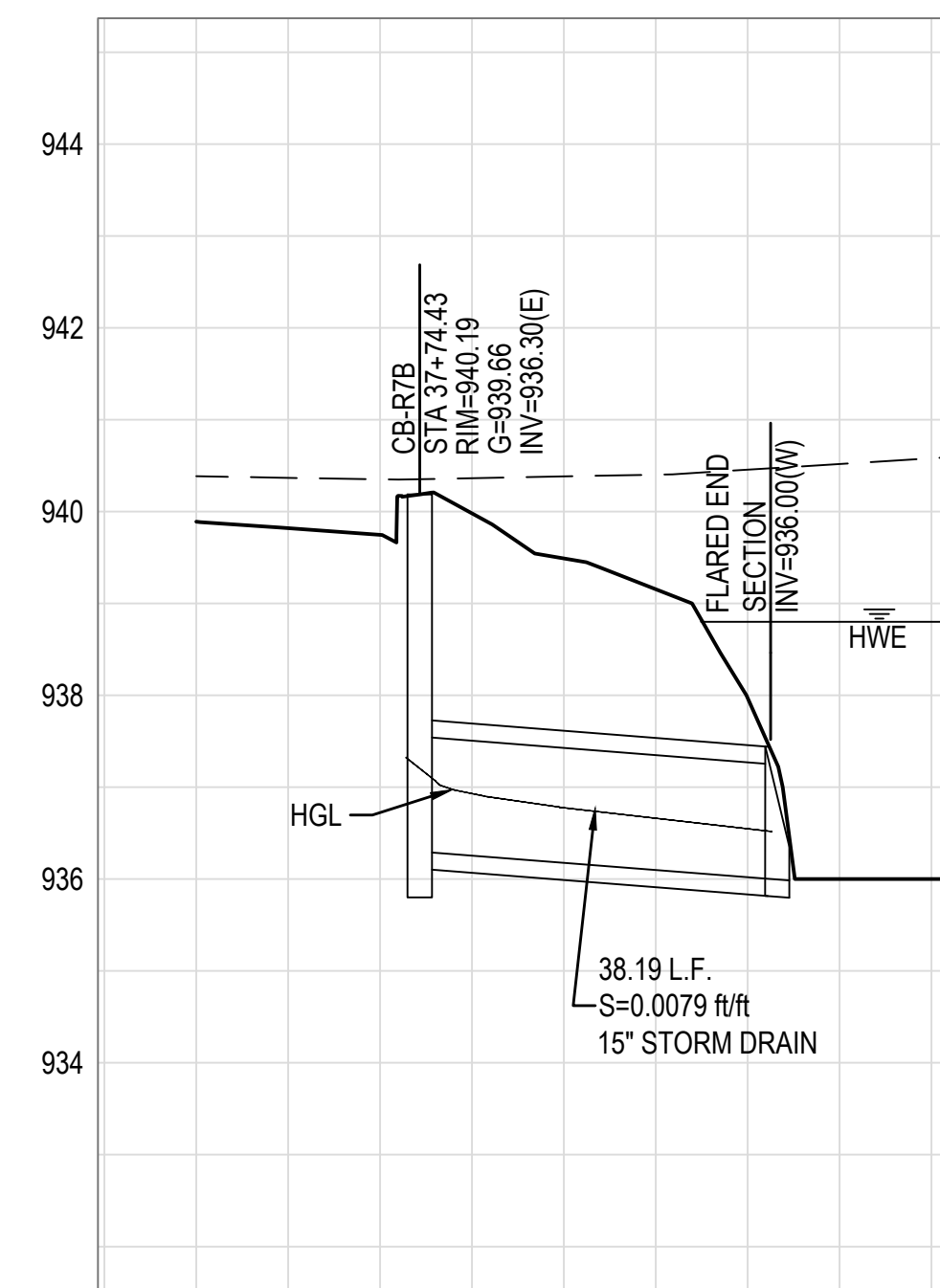
STORM DRAIN SD-1



PROFILE STORM DRAIN SD-1



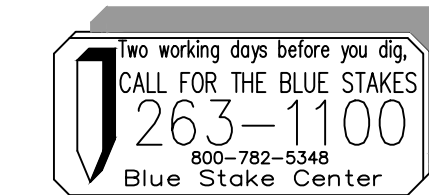
STORM DRAIN SD-R7B



PROFILE STORM DRAIN SD-R7B

STORM DRAIN NOTES

- 2 INSTALL 24" R.G.R.C.P. CLASS III STORM DRAIN PIPE.
- 3 CONSTRUCT "U" TYPE HEADWALL PER M.A.G. STANDARD DETAIL 501-1 AND MODIFIED WING WALL TAPER DIMENSION PER DETAIL SHEET. INLET MARKER PER C.O.A. STANDARD DETAIL A1500-3.
- 4 CONSTRUCT HANDRAIL PER M.A.G. STANDARD DETAIL 145.
- 5 INSTALL ROCK RIPRAP EROSION PROTECTION, TYPE PER PLAN. SEE DETAIL AND GRADATION TABLE ON DETAIL SHEET 24.
- 7 INSTALL CATCH BASIN PER C.O.A. STANDARD DETAIL A1533, TYPE, WING LENGTH AND V DEPTH PER PLAN. MODIFY BASIN WIDTH TO 4'; INLET MARKER PER C.O.A. STANDARD DETAIL A1500-1 & A1500-2.
- 9 INSTALL STORM DRAIN ACCESS BARRIER FLUSH MOUNTED TO THE HEADWALL. SEE CITY OF PHOENIX DETAIL P1563 IN THE DETAIL SHEET.
- 10 INSTALL 15" R.G.R.C.P. CLASS III STORM DRAIN PIPE.
- 21 INSTALL FLARED END SECTION PER DETAIL SHEET 23. SIZE PER PLAN.



NOTE:

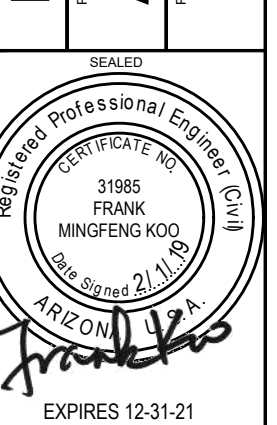
ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE CITY OF AVONDALE'S SUPPLEMENT TO THE M.A.G. SPECIFICATIONS AND STANDARD DETAILS CURRENTLY ON FILE AND AVAILABLE AT THE CITY OF AVONDALE'S ENGINEERING DEPARTMENT OR ONLINE AT THE CITY OF AVONDALE'S WEBSITE.

SCALE (HORIZ.)	N/A
SCALE (VERT.)	N/A

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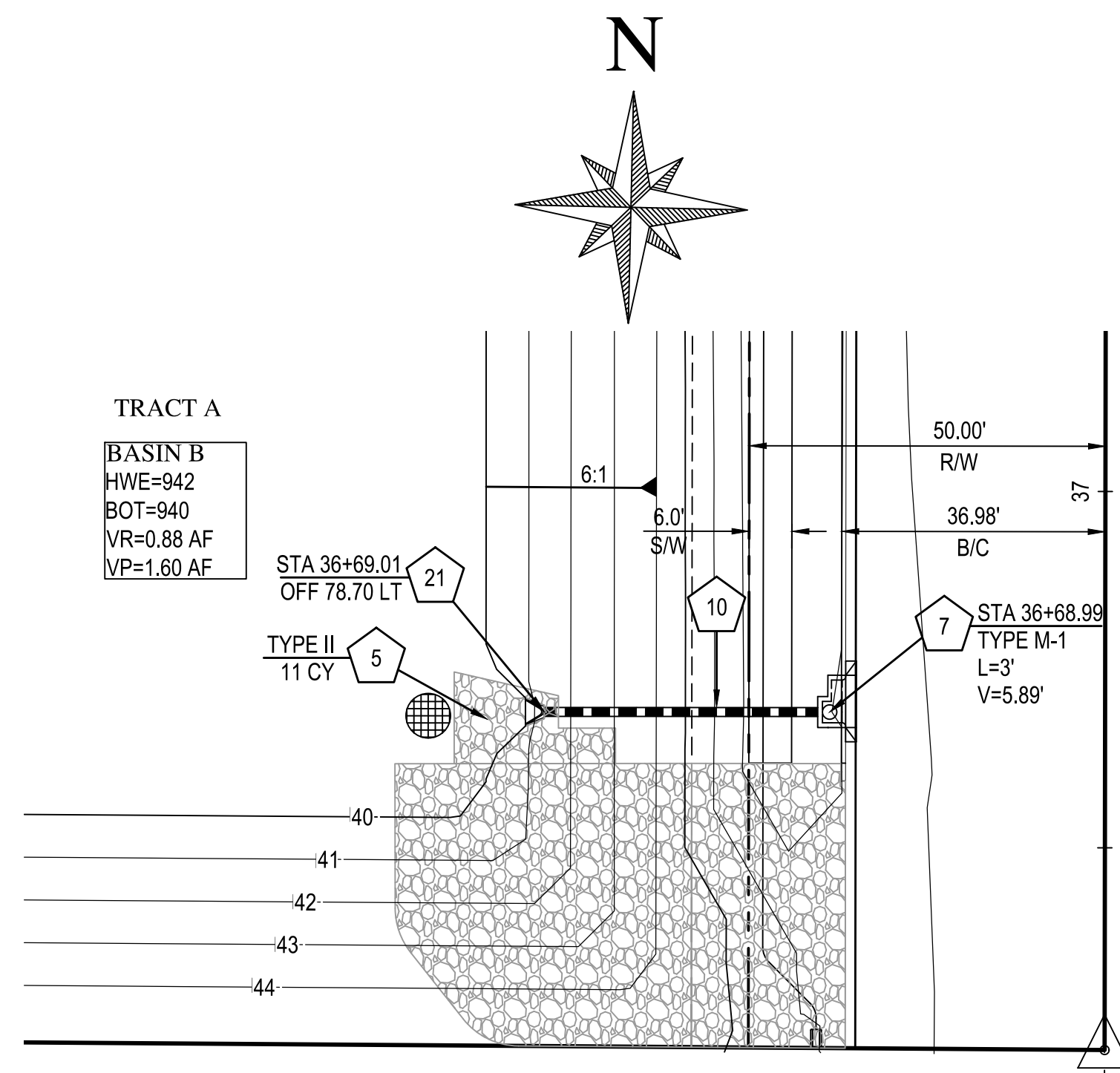


DEVELOPER
BROOKFIELD LAKIN, LLC
PROJECT NAME
ALAMAR - PHASE 1
PLAN TYPE
PAVING, STORM DRAIN, SIGNING AND MARKING PLAN
AVONDALE BLVD, BROADWAY RD, AND ALAMAR PARKWAY

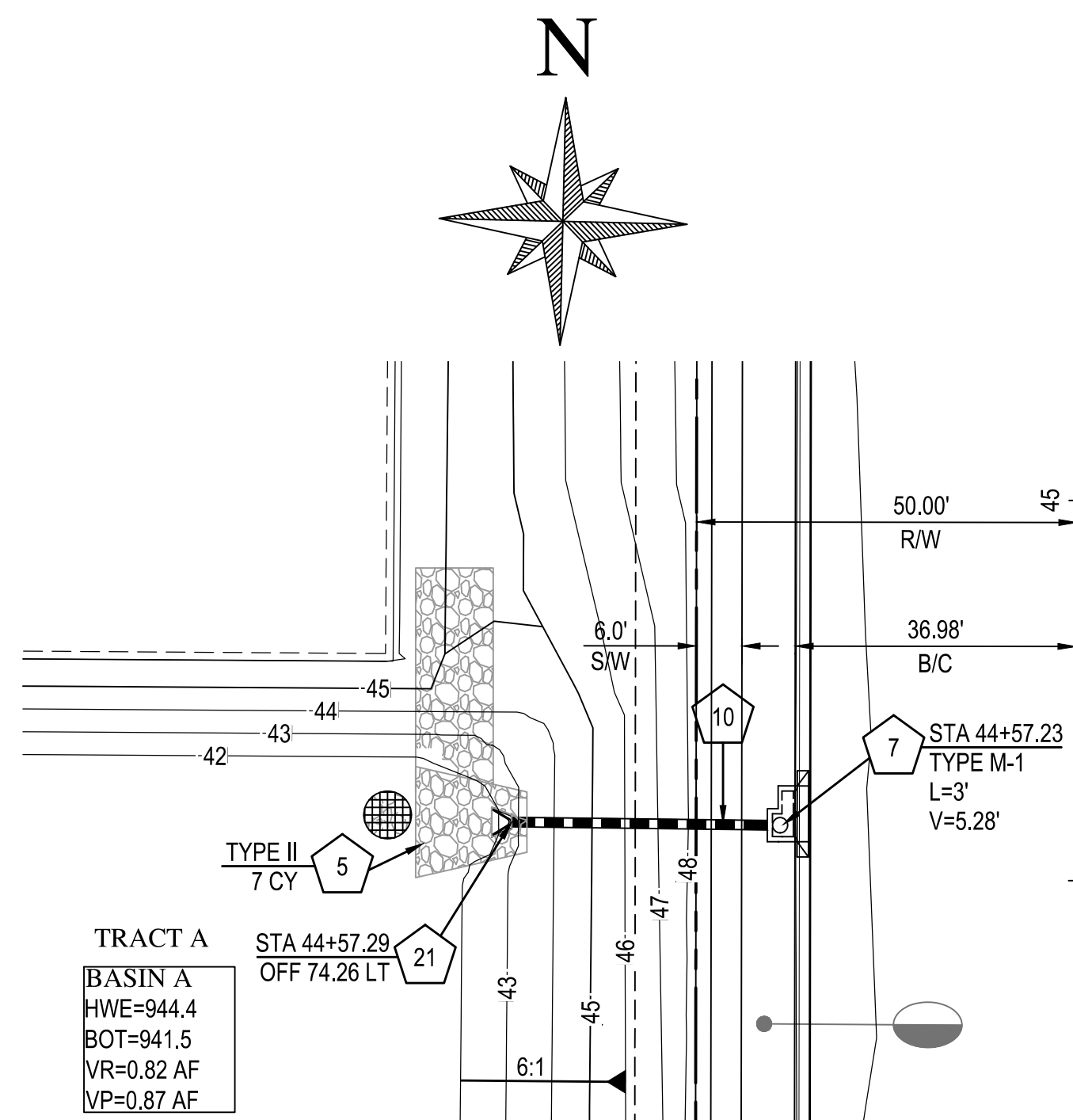


DATE	2/11/2019
LATEST REVISION DATE	
SHEET NUMBER	21 OF 30
PROJECT NUMBER	174612.04

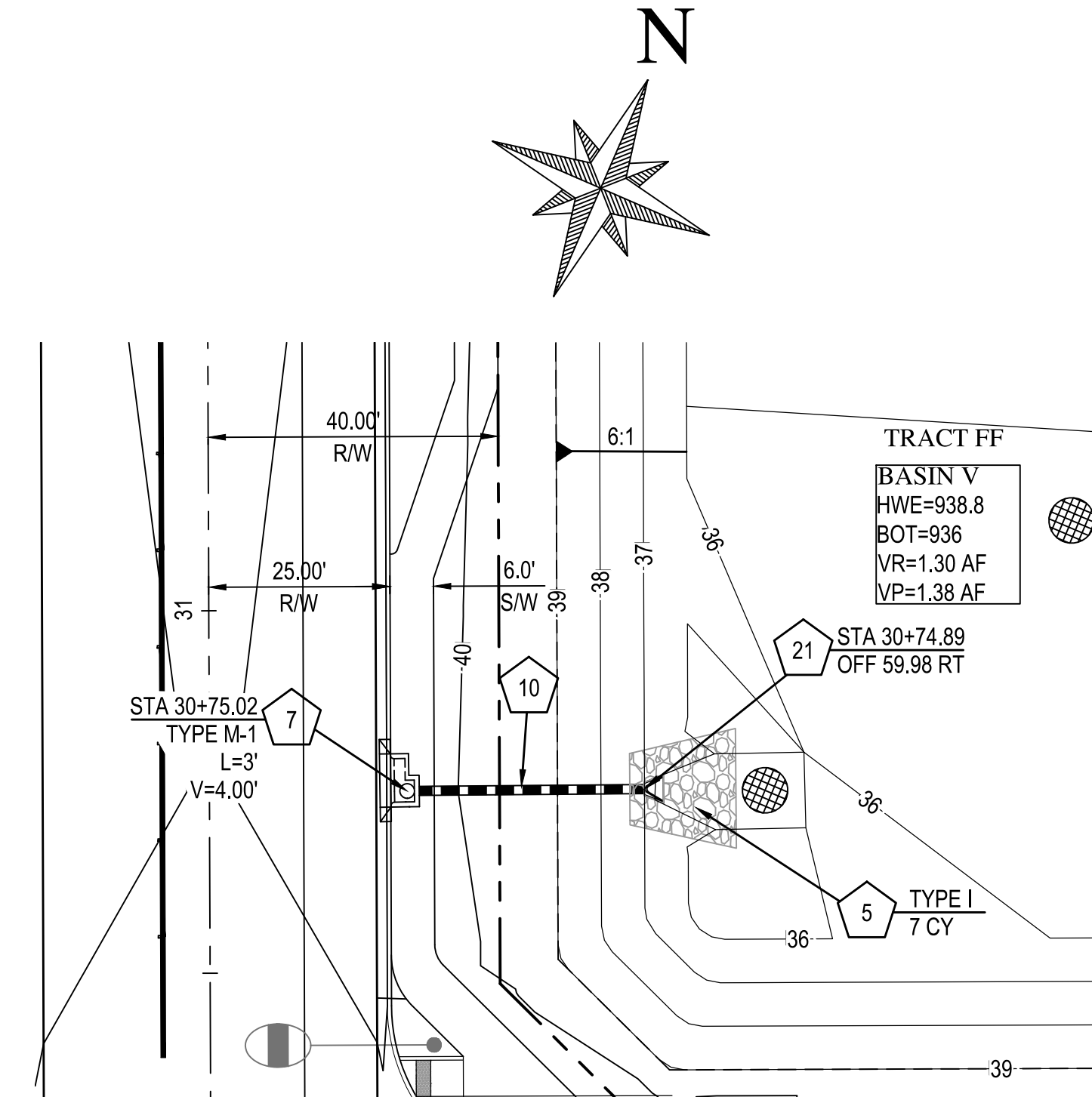
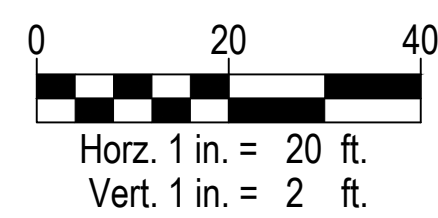
ENG 18-0208



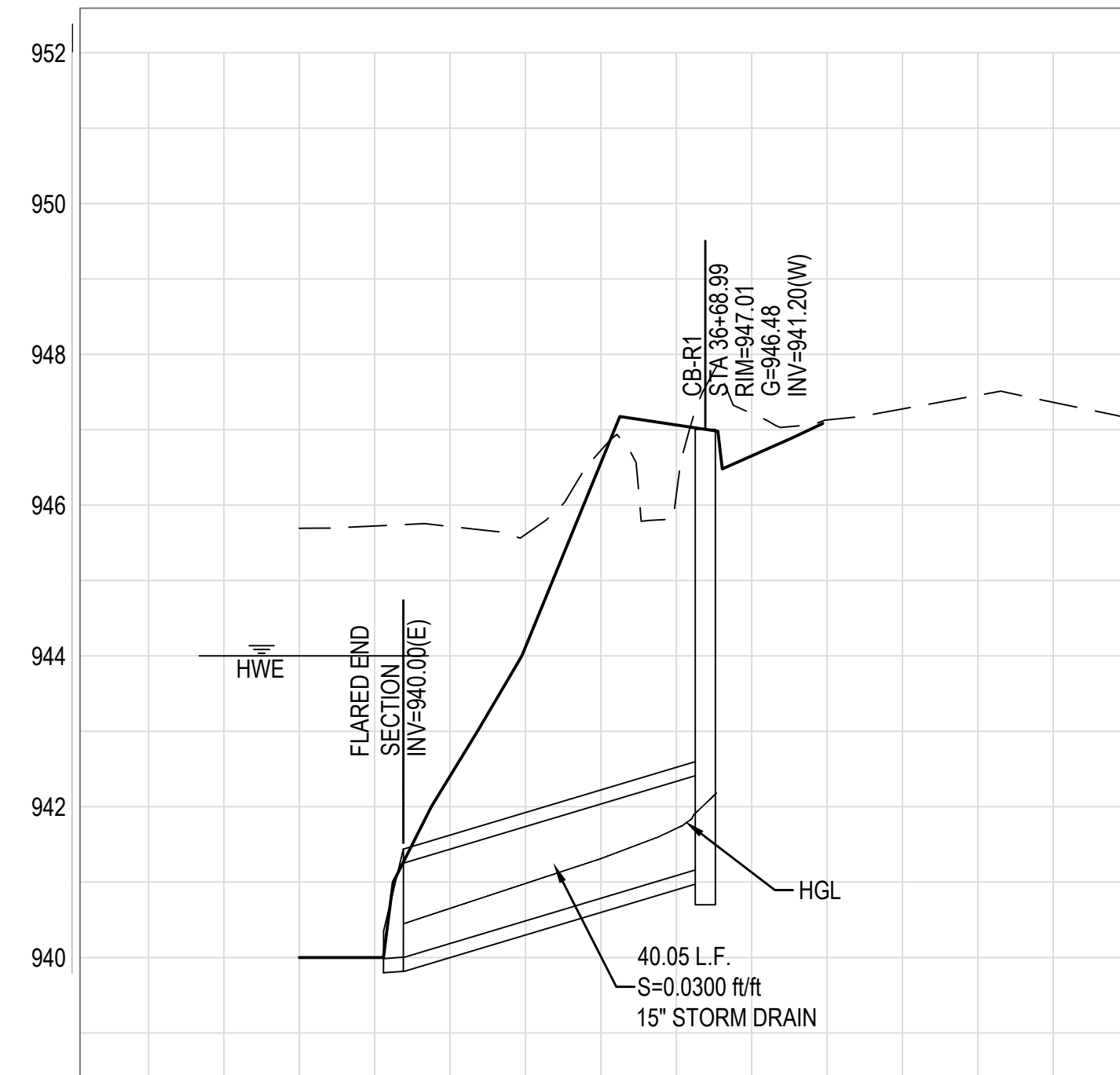
AVONDALE BOULEVARD
STORM DRAIN SD-R1



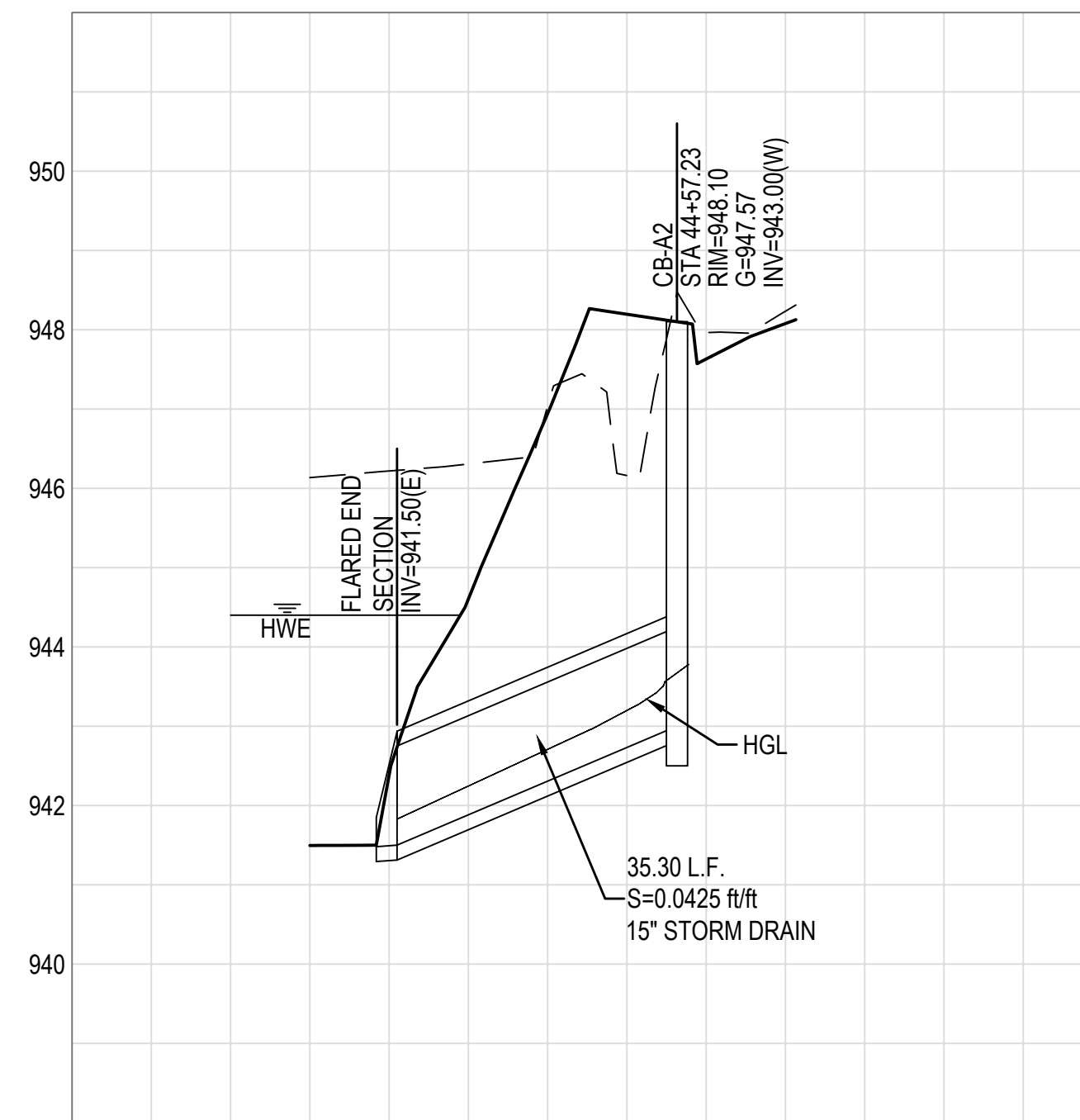
AVONDALE BOULEVARD
STORM DRAIN SD-A2



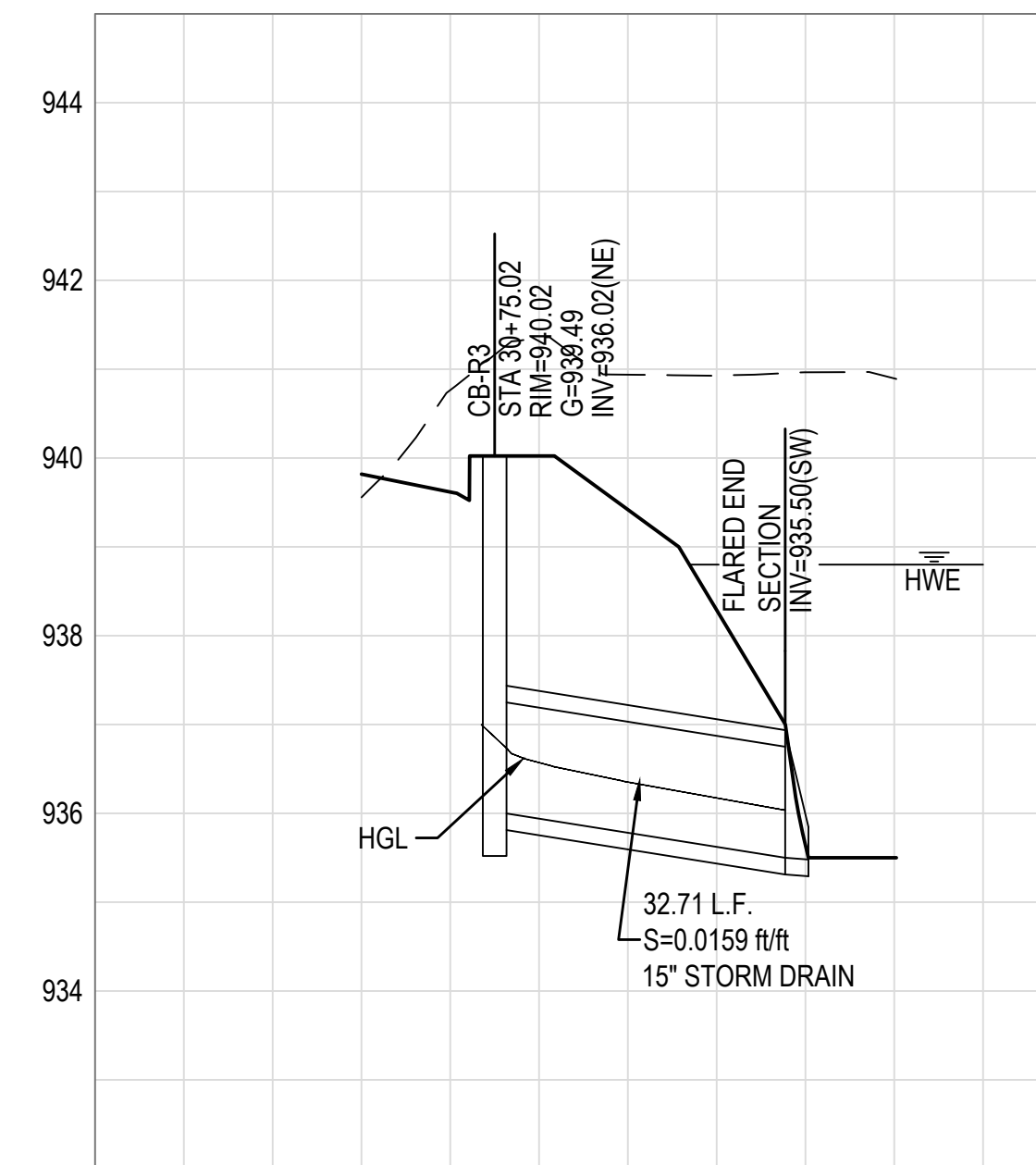
ALAMAR PARKWAY
STORM DRAIN SD-R3



PROFILE STORM DRAIN SD-R1



PROFILE STORM DRAIN SD-A2



PROFILE STORM DRAIN SD-R3

STORM DRAIN NOTES

- 5 INSTALL ROCK RIPRAP EROSION PROTECTION, TYPE PER PLAN. SEE DETAIL AND GRADATION TABLE ON DETAIL SHEET 24.
- 7 INSTALL CATCH BASIN PER C.O.A. STANDARD DETAIL A1533, TYPE, WING LENGTH AND V DEPTH PER PLAN. MODIFY BASIN WIDTH TO 4'; INLET MARKER PER C.O.A. STANDARD DETAIL A1500-1 & A1500-2.
- 10 INSTALL 15" R.G.R.C.P. CLASS III STORM DRAIN PIPE.
- 21 INSTALL FLARED END SECTION PER DETAIL SHEET 23. SIZE PER PLAN.



NOTE:

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SCALE (HORIZ.)	N/A
SCALE (VERT.)	N/A

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ALAMAR - PHASE 1
PAVING, STORM DRAIN, SIGNING AND MARKING PLAN
AVONDALE BLVD, BROADWAY RD, AND ALAMAR PARKWAY



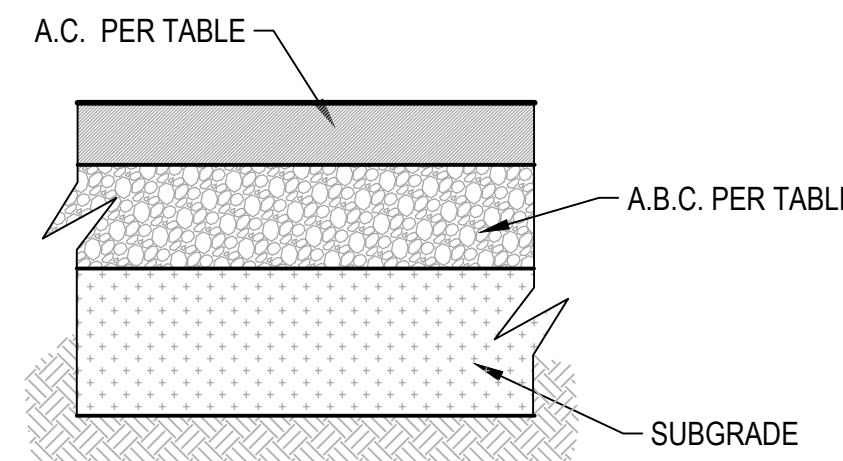
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REVISION	
SHEET NUMBER	22 OF 30
PROJECT NUMBER	174612.04

ENG 18-0208

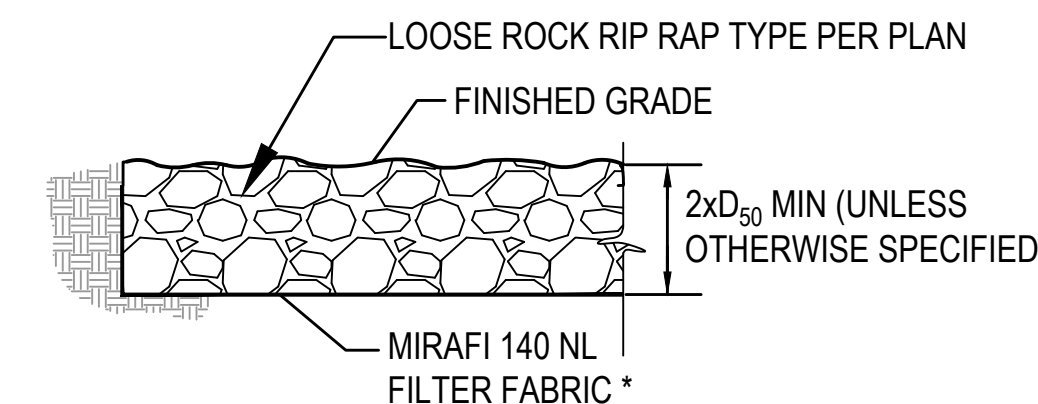
ROADWAY SECTION TABLES

PROPOSED ROADWAY SECTION			
STREET	AC THK	ABC THK	SUB-BASE*
LOCAL / NEIGHBORHOOD ENTRY	3"	8"	12"
MINOR ARTERIAL (BROADWAY RD)	5"	14"	12"
MINOR ARTERIAL (AVONDALE BLVD)	5"	14"	12"
MINOR COLLECTOR (ALAMAR PKWY)	3.5"	10"	12"

NOTE:
ROADWAY SECTION PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
*SUB-BASE TO BE MOISTURE CONDITIONED AND MIN. 95% COMPACTED
(NUMBER OF LIFTS PER C.O.A. STANDARD)



ROADWAY PAVEMENT SECTION
N.T.S.



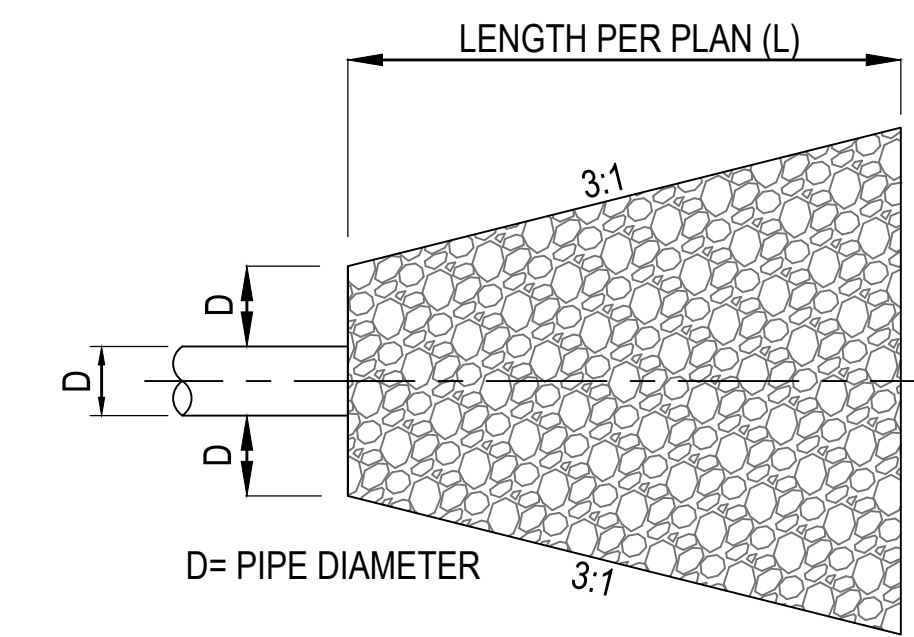
LOOSE ROCK RIPRAP

NOTE: RIP-RAP TO BE ANGULAR STONE

PERCENT FINER BY WEIGHT (D)	SIEVE SIZE			
	TYPE I	TYPE II	TYPE III	TYPE IV
15	3"	4"	6"	8"
50	6"	9"	12"	18"
85	8"	14"	18"	27"
100	12"	18"	24"	36"

INSTALL LOOSE RIP-RAP PER M.A.G. SPEC. 220

* INSTALL "MIRAFI 140 NL" FILTER FABRIC OR APPROVED EQUAL UNDER ALL LOOSE RIP-RAP



LOOSE ROCK RIPRAP APRON
N.T.S.

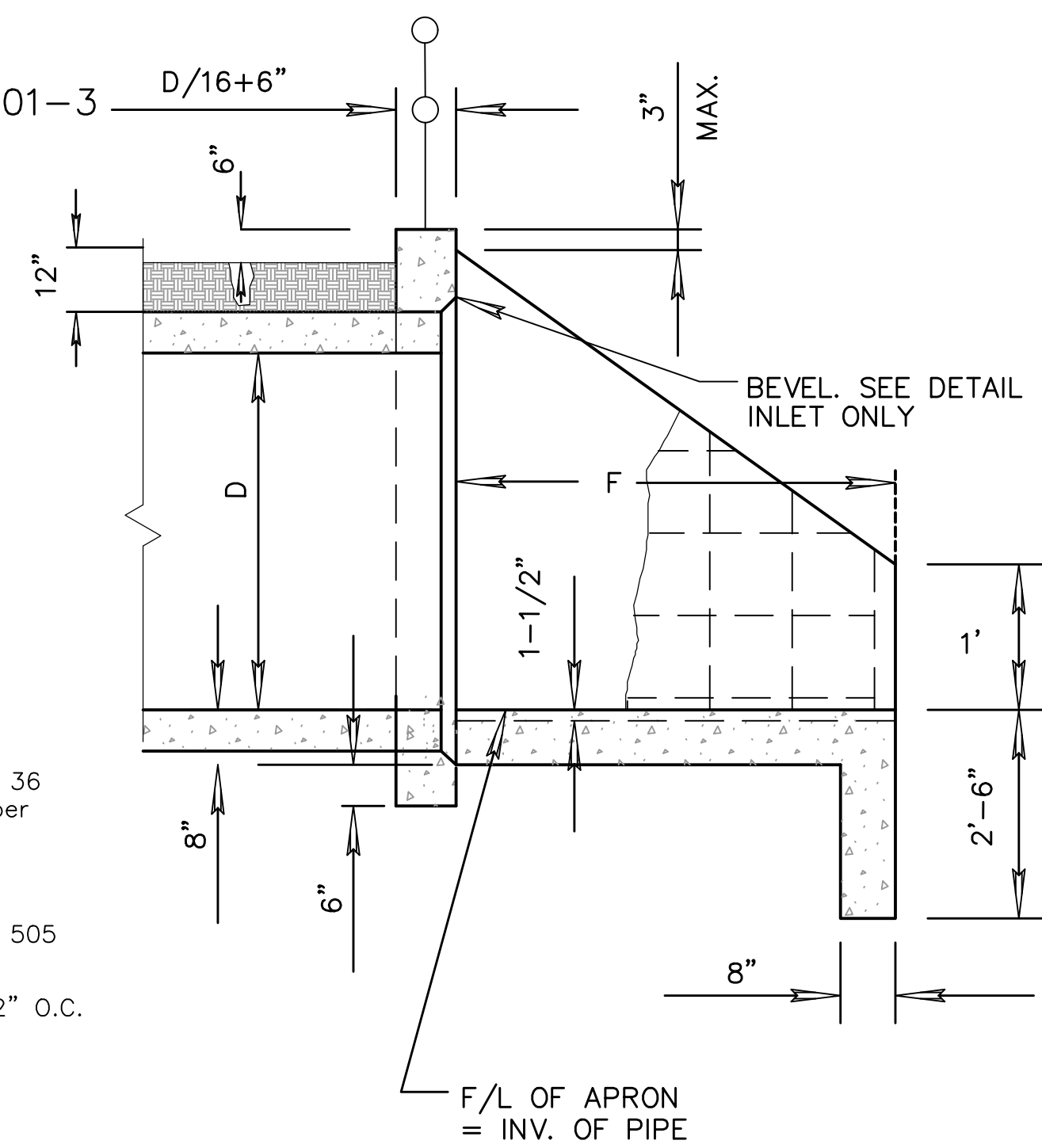
DIMENSION TABLE
MODIFIED MAG STANDARD DETAIL 501-3

D (IN)	TYPE	DIMENSIONS		
		F	E	X
15	INLET	7.68	7.68	1.00
	OUTLET	7.68	2.85	1.00
18	INLET	8.68	8.68	1.00
	OUTLET	8.68	3.22	1.00
24	INLET	10.68	10.68	1.00
	OUTLET	10.68	3.96	1.00
30	INLET	12.68	12.68	1.00
	OUTLET	12.68	4.70	1.00
36	INLET	14.68	14.68	1.00
	OUTLET	14.68	5.45	1.00

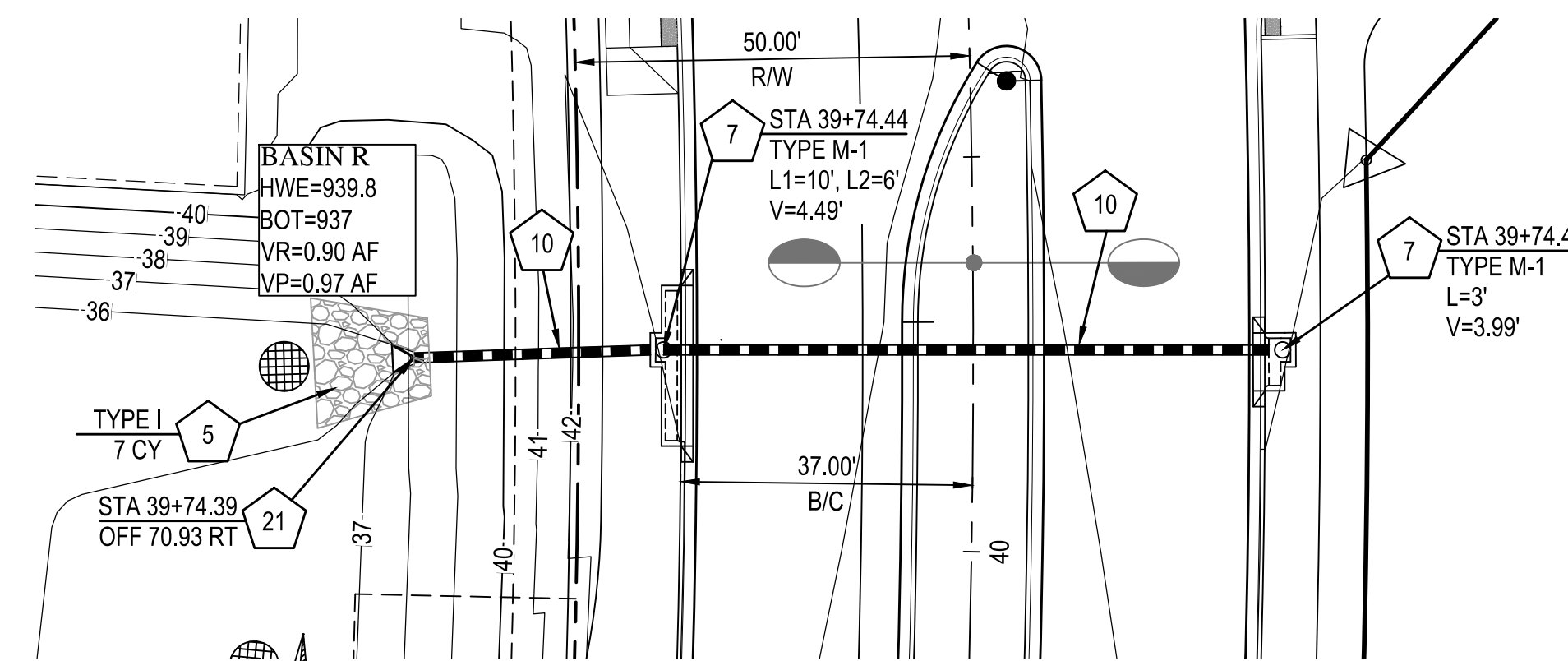
4:1 EMBANKMENT SLOPE

NOTES:

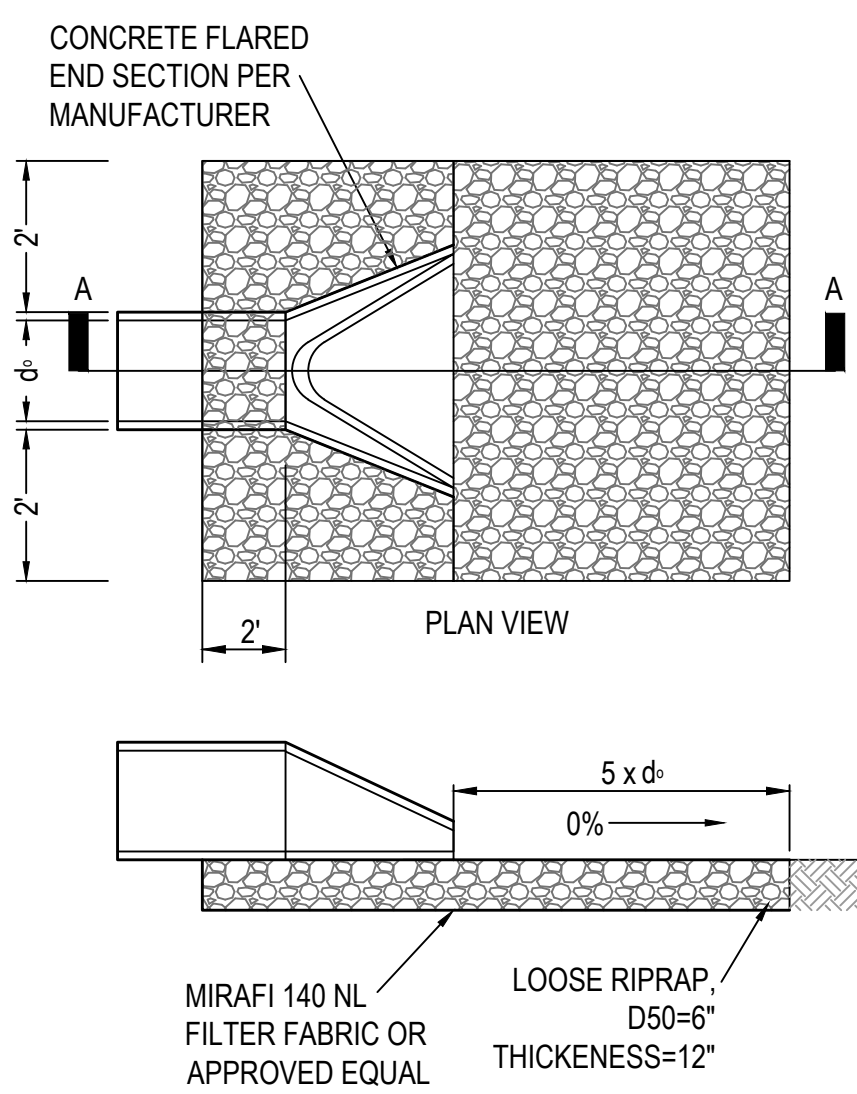
- See MAG Standard Detail 501-3 for remaining dimensions.
- This detail modifies pipe sizes 15 through 36 only. All other sizes shall be constructed per MAG Standard Detail 501-3.
- See detail B-110 for handrail.
- All concrete shall be class 'A' per section 505 and 725.
- Concrete reinforcing shall be No. 4 bar 12" O.C. both directions.



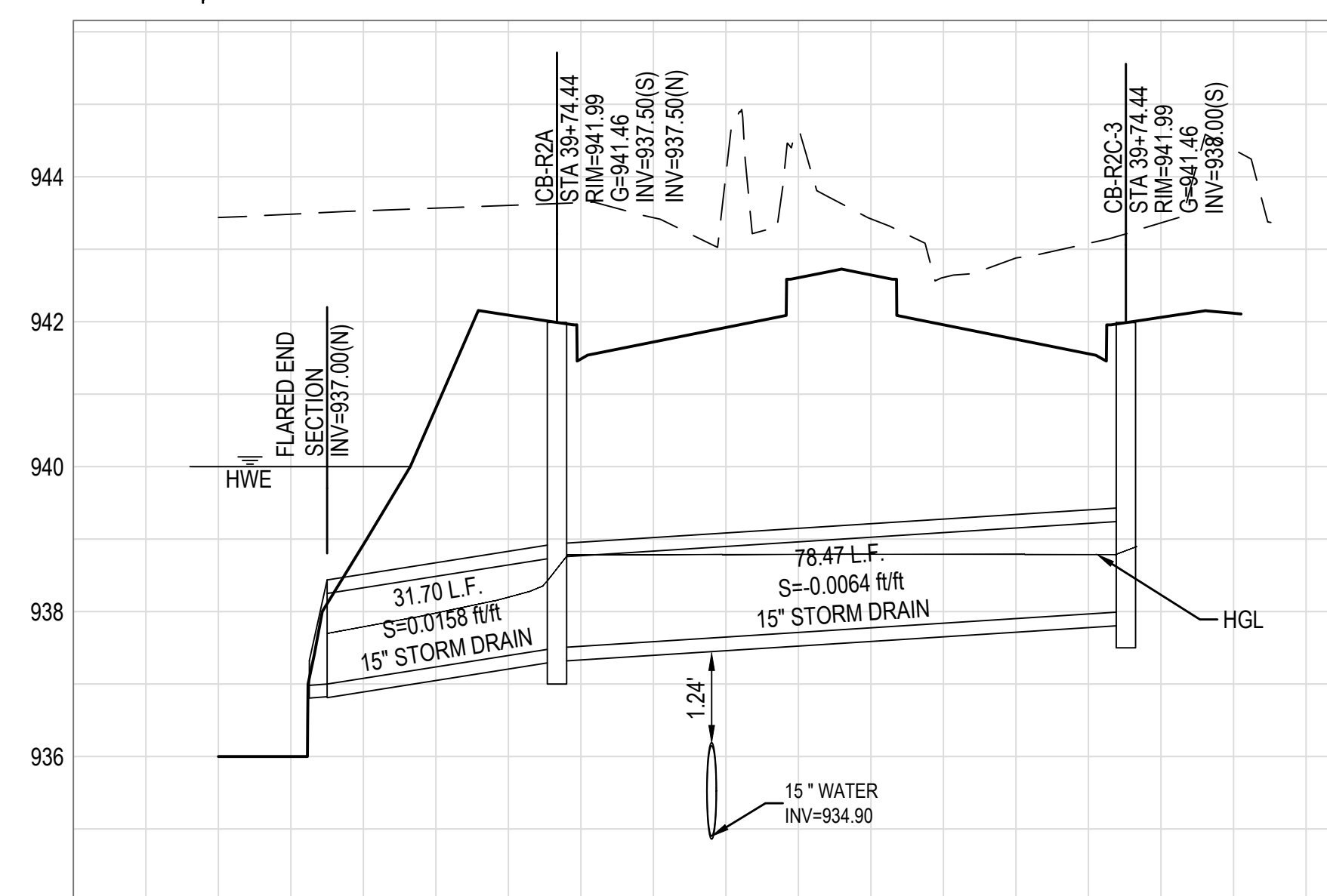
MODIFIED HEADWALL DETAIL



**BROADWAY ROAD
STORM DRAIN SD-R2A**



FLARED END SECTION OUTLET DETAIL
N.T.S.



PROFILE STORM DRAIN SD-R2A

STORM DRAIN NOTES

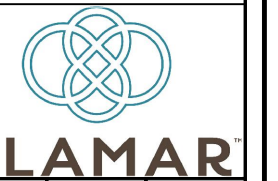
- 5 INSTALL ROCK RIPRAP EROSION PROTECTION, TYPE PER PLAN. SEE DETAIL AND GRADATION TABLE ON DETAIL SHEET 24.
- 7 INSTALL CATCH BASIN PER C.O.A. STANDARD DETAIL A1533, TYPE, WING LENGTH AND V DEPTH PER PLAN. MODIFY BASIN WIDTH TO 4'; INLET MARKER PER C.O.A. STANDARD DETAIL A1500-1 & A1500-2.
- 10 INSTALL 15" R.G.R.C.P. CLASS III STORM DRAIN PIPE.
- 21 INSTALL FLARED END SECTION PER DETAIL SHEET 23. SIZE PER PLAN.



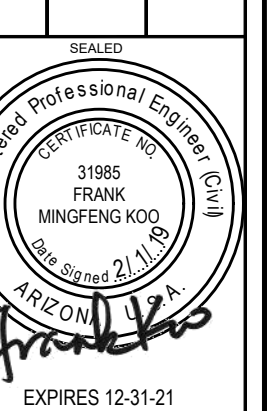
NOTE:

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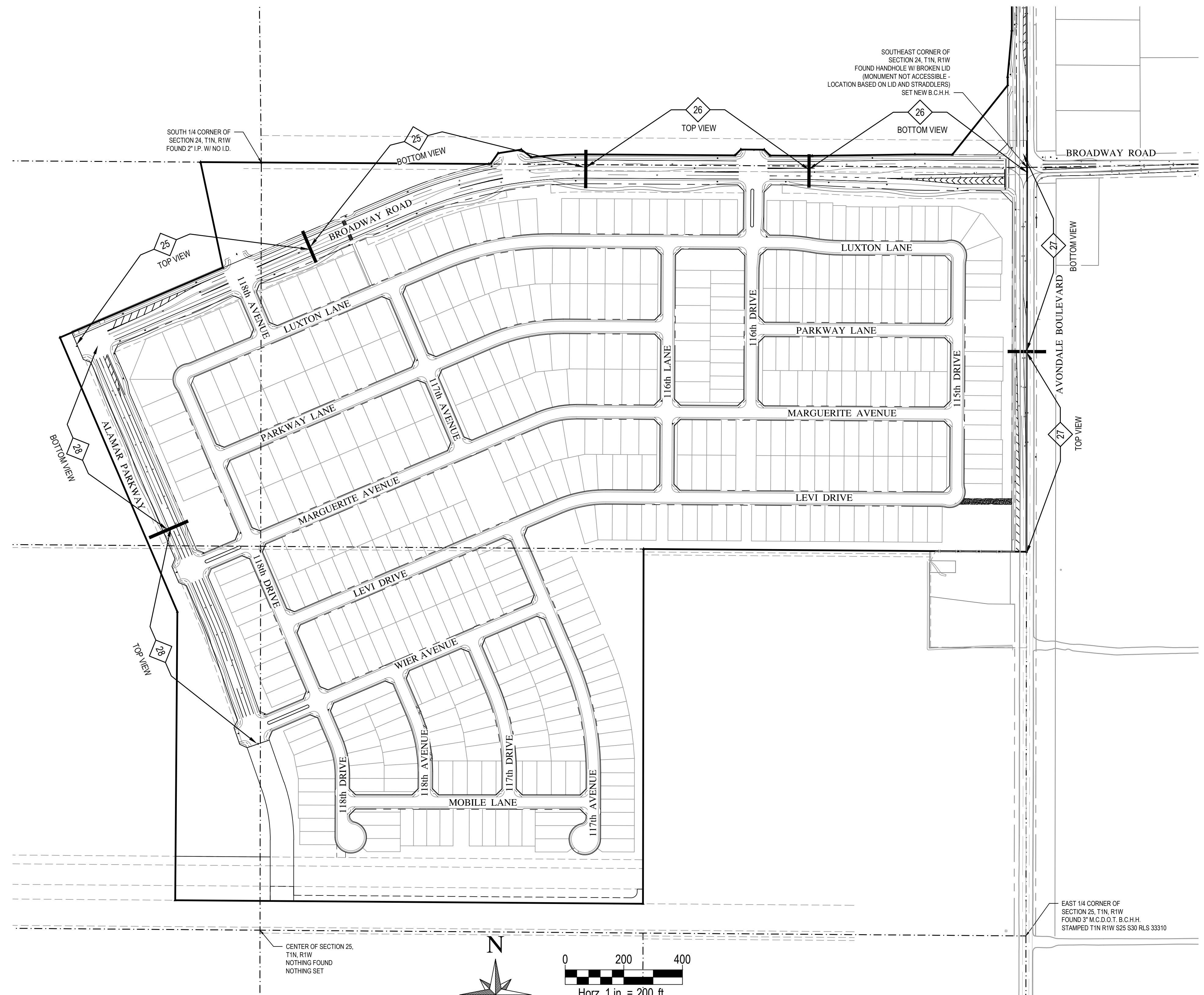


DEVELOPER: BROOKFIELD LAKIN, LLC
PROJECT NAME: ALAMAR - PHASE 1
PLAN TYPE: PAVING, STORM DRAIN, SIGNING AND MARKING PLAN
PROJECT LOCATION: AVONDALE BLVD, BROADWAY RD, AND ALAMAR PARKWAY



PLAN DATE: 2/11/2019
LATEST REVISION DATE:
SHEET NUMBER: 23 OF 30
PROJECT NUMBER: 174612.04

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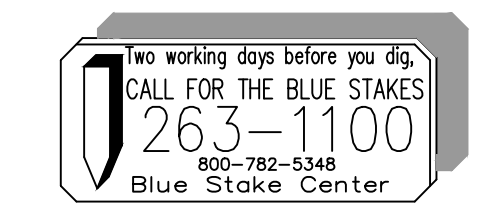
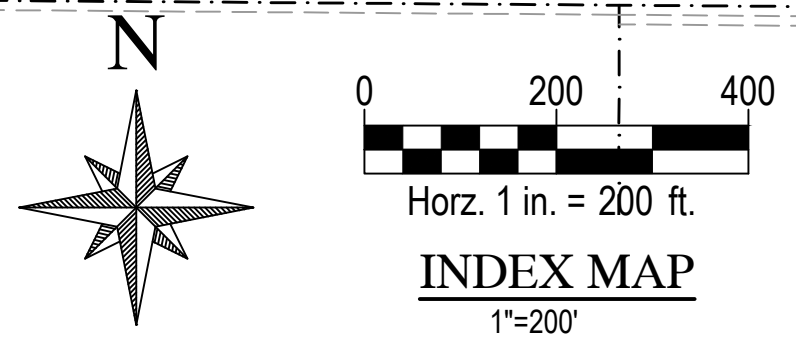
SHEET INDEX LEGEND

- SIGNING & STRIPING SHEET NUMBER
- SIGNING & STRIPING PLAN MATCHLINE

STRIPING LEGEND

- 4" BROKEN WHITE LINE WITH A 10' LINE SEGMENT AND A 30' GAP WITH TYPE "D" RPM'S @ 40' SPACING
- 4" SOLID WHITE LINE
- 6" SOLID WHITE LINE
- 4" SOLID WHITE LINE W/ TYPE "D" RPM'S @ 20' SPACING
- 4" SOLID YELLOW LINE W/ TYPE "D" RPM'S @ 20' SPACING
- 8" SOLID WHITE LINE
- 8" SOLID WHITE LINE W/ TYPE "D" RPM'S @ 20' SPACING
- 8" SOLID YELLOW LINE W/ TYPE "D" RPM'S @ 20' SPACING
- 8" DASHED WHITE LINE WITH A 2' LINE SEGMENT AND A 4' GAP
- 12" SOLID WHITE LINE
- 12" SOLID YELLOW LINE
- 24" SOLID WHITE LINE

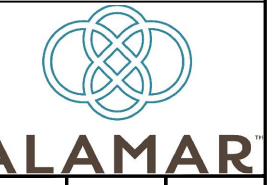
NOTE:
PAVEMENT ARROWS ARE PER ADOT STD. DRAWING M-10 AND M-11. THERMOPLASTIC MARKING PER SECTION 462 OF THE MCDOT SUPPLEMENT TO THE M.A.G. UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION.



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SCALE (HORIZ.)	1" = 200'
SCALE (VERT.)	N/A

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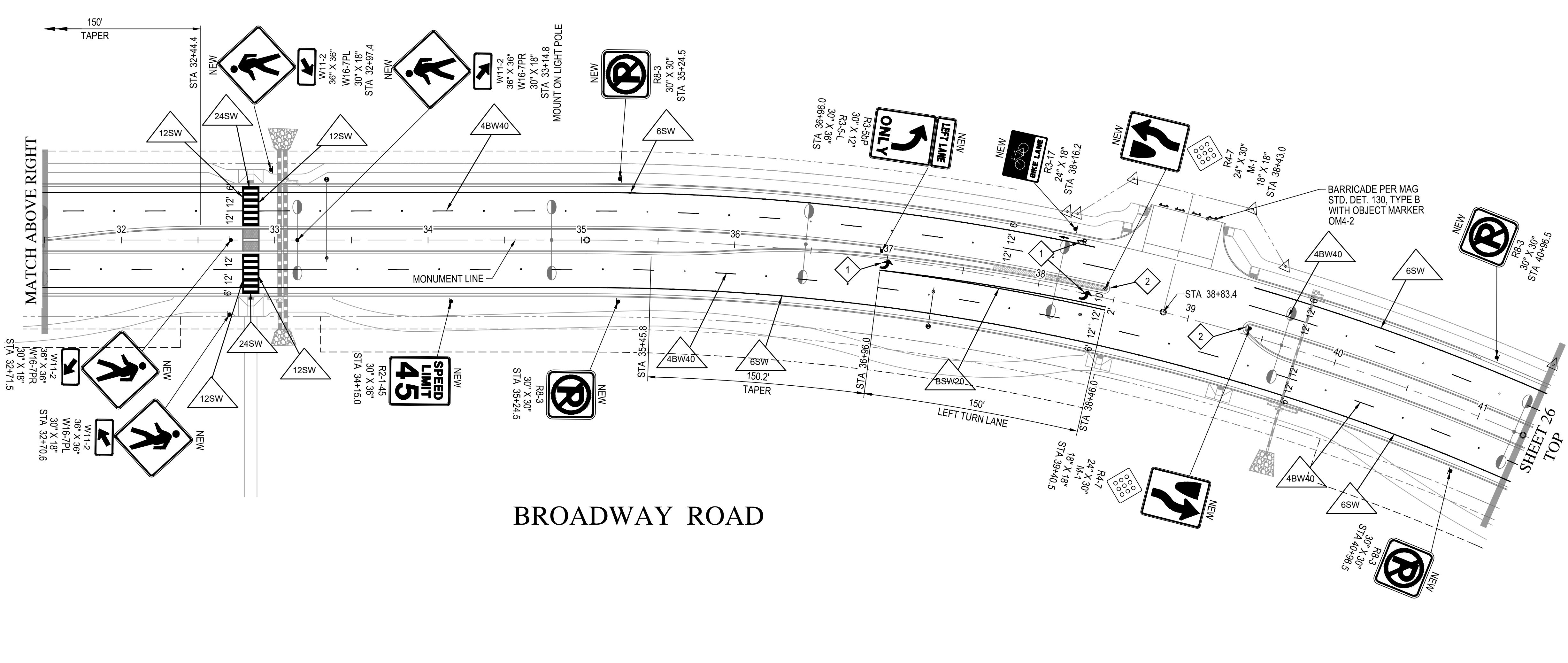
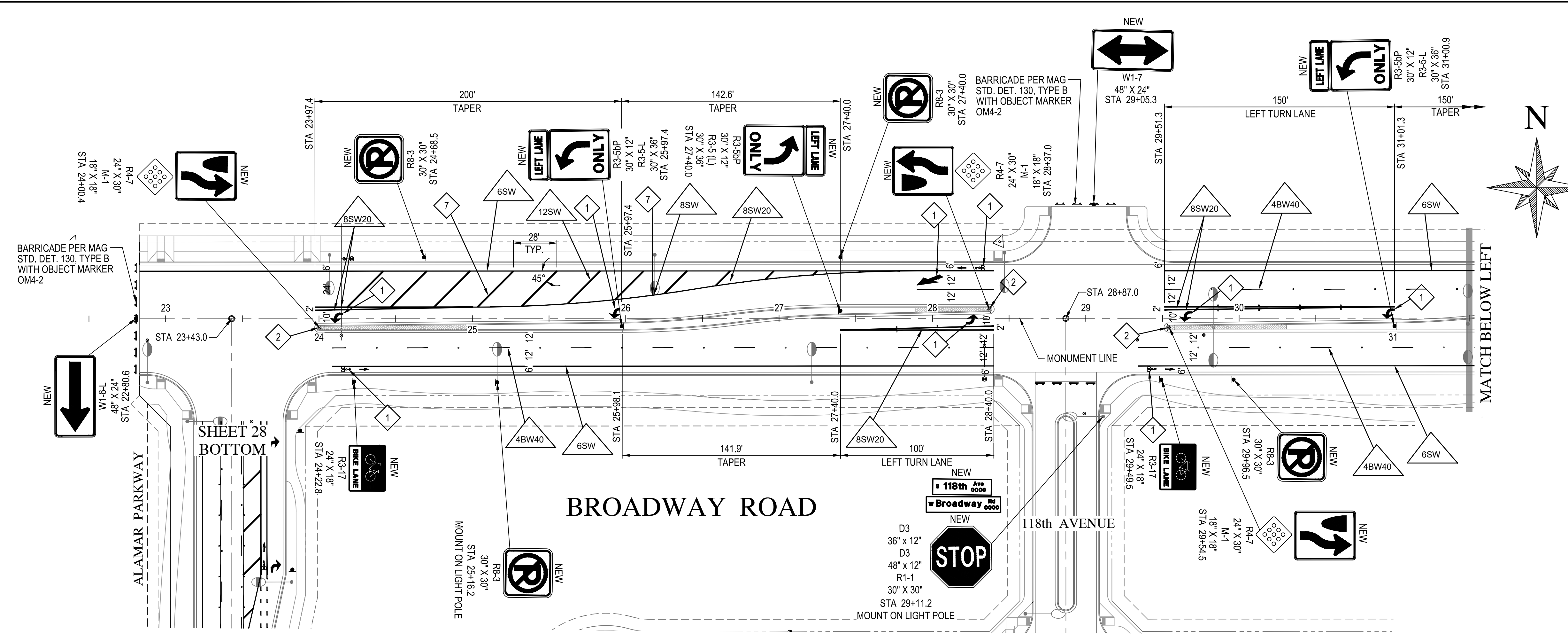
ALAMAR

DEVELOPER/BROOKFIELD LAKIN, LLC
PROJECT NAME/ALAMAR - PHASE 1
PLAN TYPE/PAVING, STORM DRAIN, SIGNING AND MARKING PLAN
PROJECT LOCATION/AVONDALE BLVD., BROADWAY RD., AND ALAMAR PARKWAY



PLAN DATE/2/1/2019
LATEST REVISION DATE
SHEET NUMBER/24 OF 30
PROJECT NUMBER/174612.04

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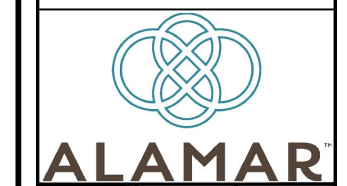
- SIGNING & STRIPING NOTES**
- 1 PAVEMENT MARKING PER CITY OF AVONDALE STANDARD DETAIL 1610. THERMOPLASTIC MARKING PER SECTION 462 OF M.C.D.O.T. SUPPLEMENT TO THE M.A.G. UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION
 - 2 MEDIAN NOSE STRIPING AND MARKINGS PER CITY OF AVONDALE STANDARD DETAIL A1601.
 - 7 TEMPORARY PAVEMENT MARKING. PAINT PER SECTION 461 OF M.C.D.O.T. SUPPLEMENT TO THE M.A.G. UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION

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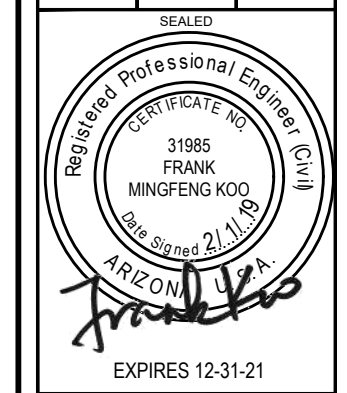
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SCALE (HORIZ.)	1" = 40'
SCALE (VERT.)	N/A

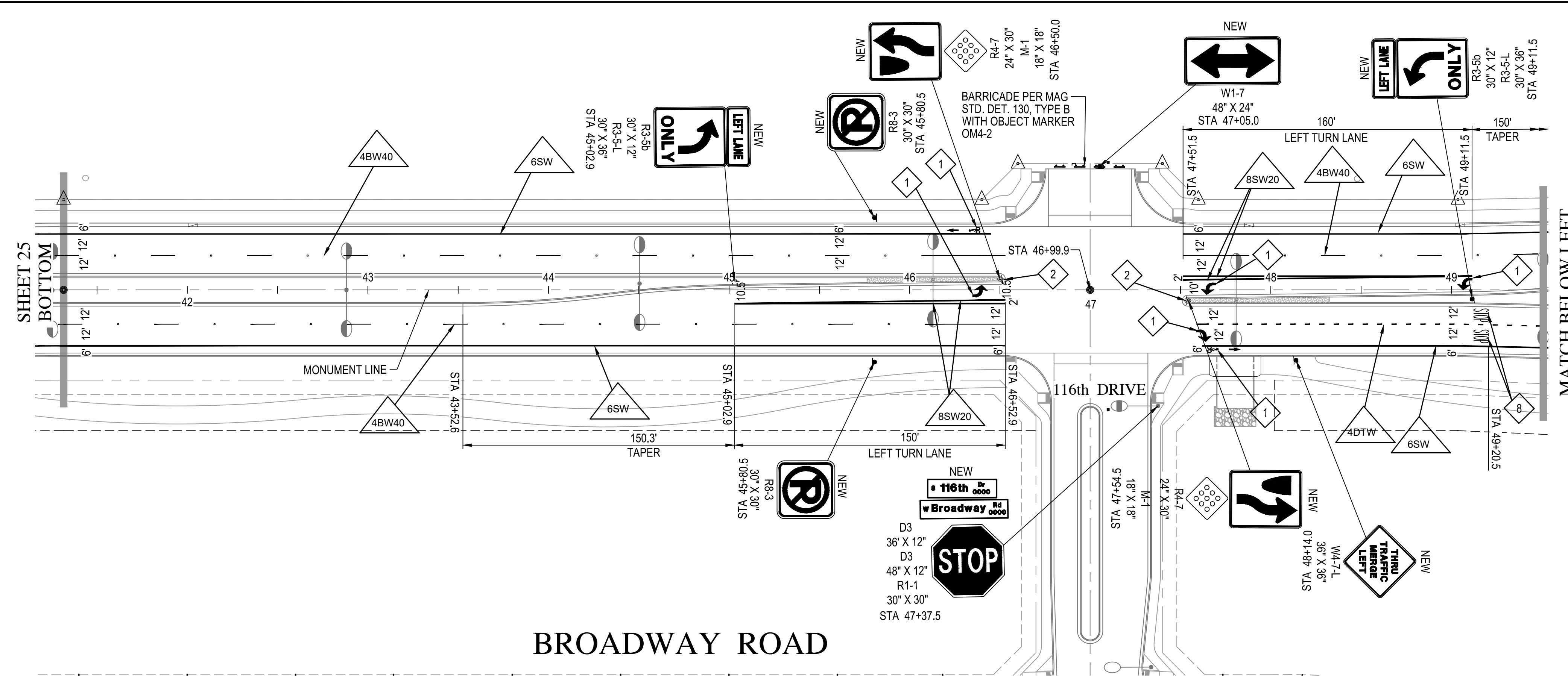
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BROOKFIELD LAKIN, LLC
ALAMAR - PHASE 1
SIGNING AND MARKING PLAN
AVONDALE BOULEVARD, BROADWAY ROAD & ALAMAR PARKWAY

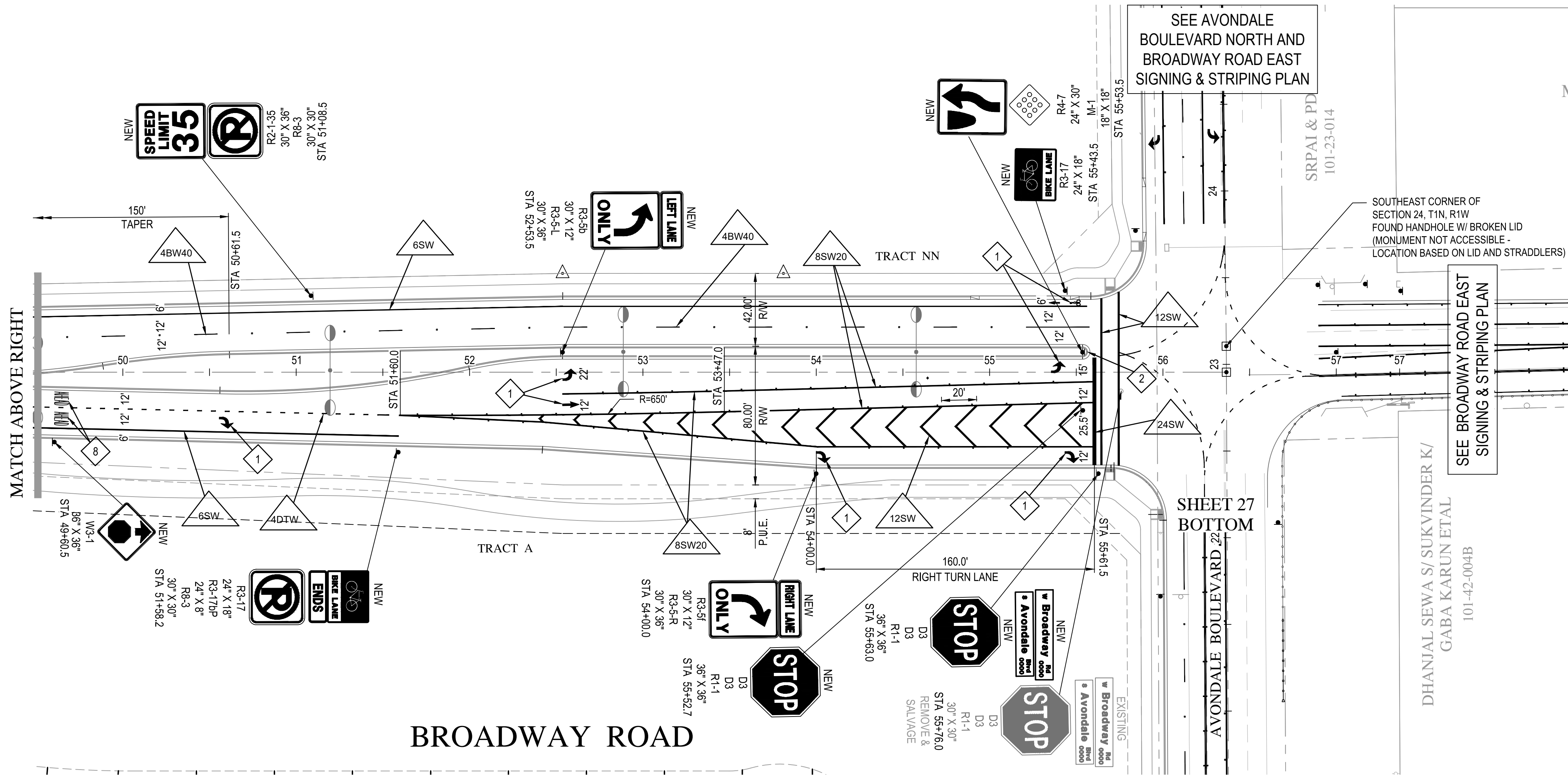


DATE	2/11/2019
LATEST REVISION DATE	
SHEET NUMBER	25 OF 30
PROJECT NUMBER	174612.04



BROADWAY ROAD

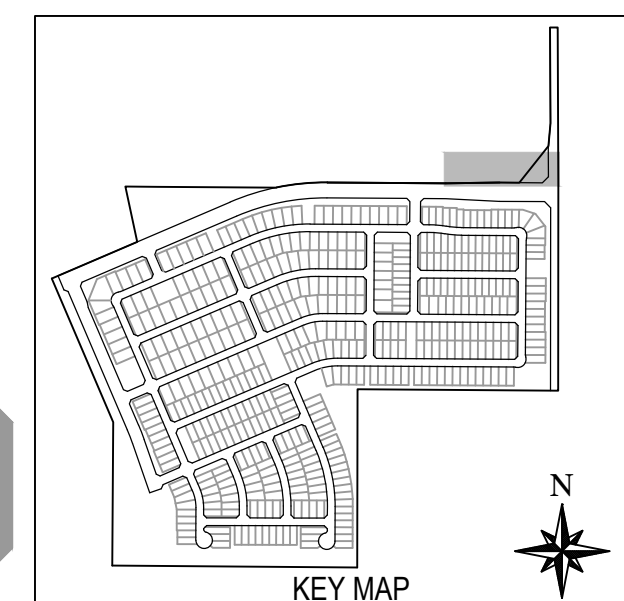
- SIGNING & STRIPING NOTES**
- 1 PAVEMENT MARKING PER CITY OF AVONDALE STANDARD DETAIL 1810. THERMOPLASTIC MARKING PER SECTION 462 OF M.C.D.O.T. SUPPLEMENT TO THE M.A.G. UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION
 - 2 MEDIAN NOSE STRIPING AND MARKINGS PER CITY OF AVONDALE STANDARD DETAIL A1601.
 - 3 INSTALL "STOP AHEAD" THERMOPLASTIC PAVEMENT MARKING PER SECTION 462 OF M.C.D.O.T. SUPPLEMENT TO THE M.A.G. UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION. USE PAVEMENT LETTERS PER ADOT STD. DETAILS M-6, M-7 & M-8.



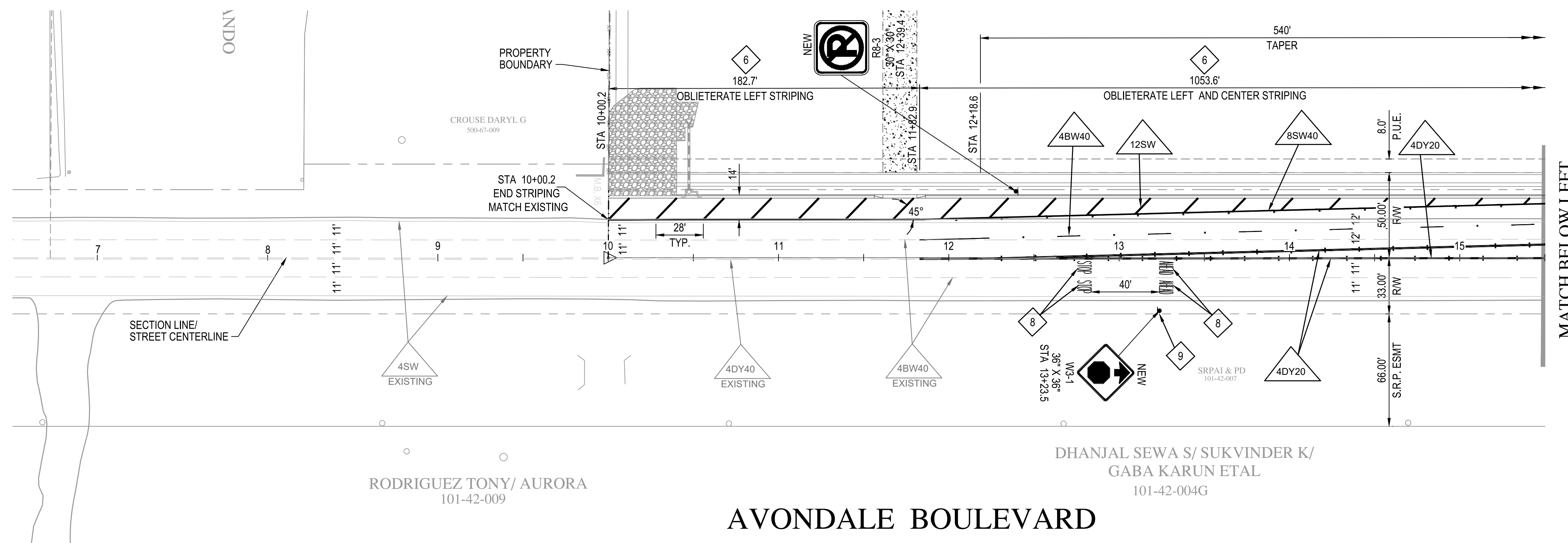
BROADWAY ROAD

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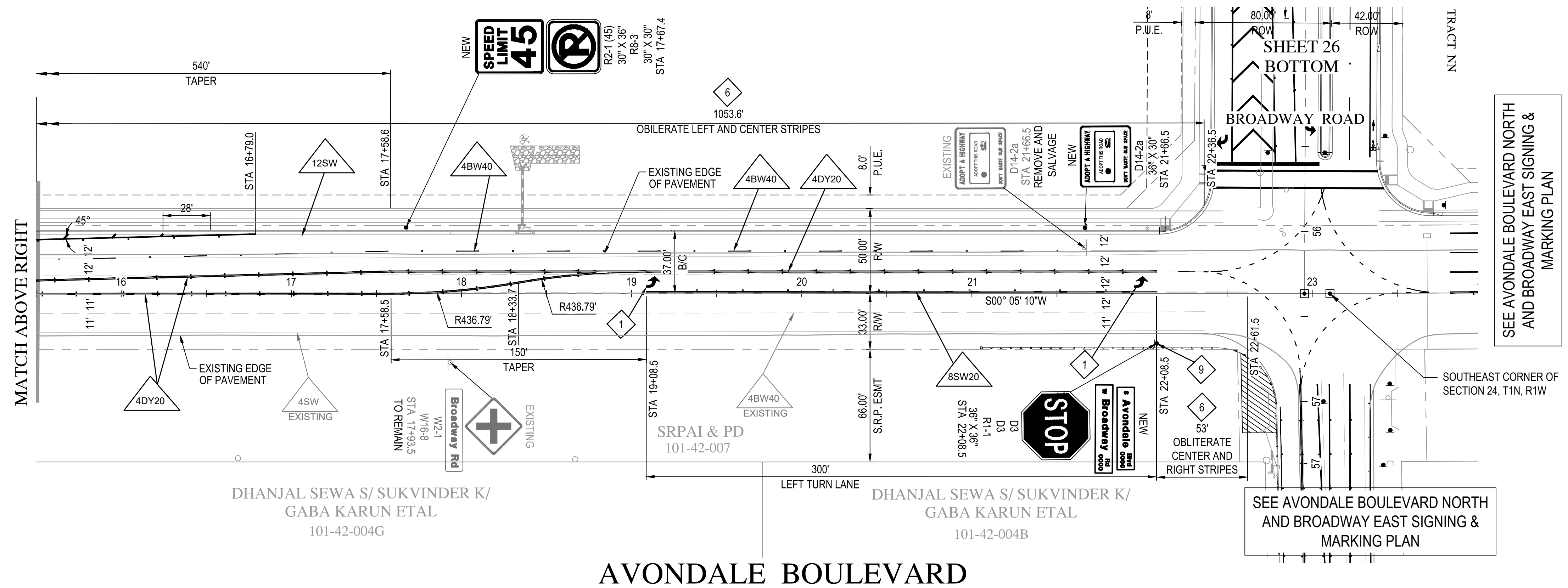
<p>WOOD/PATEL MISSION: CLIENT SERVICE® (602) 335-8500 WWW.WOODPATEL.COM</p>	
<p>SCALE (HORIZ.) 1" = 40' SCALE (VERT.) N/A</p>	
<p>ALAMAR</p>	
<p>BROOKFIELD LAKIN, LLC PROJECT NAME ALAMAR - PHASE 1 PLAN TYPE SIGNING AND MARKING PLAN AVONDALE BOULEVARD, BROADWAY ROAD & ALAMAR PARKWAY</p>	
<p>SEAL Professional Engineer 31985 FRANK MINGOS MAY 21, 2019 AVONDALE, AZ</p>	
<p>EXPRES 12-31-21 PLAN DATE 2/11/2019 LATEST REVISION DATE</p>	
<p>SHEET NUMBER 26 OF 30 PROJECT NUMBER 174612.04</p>	



AVONDALE BOULEVARD

SIGNING & STRIPING NOTES

- 1 PAVEMENT MARKING PER CITY OF AVONDALE STANDARD DETAIL 1610. THERMOPLASTIC MARKING PER SECTION 462 OF M.C.D.O.T. SUPPLEMENT TO THE M.A.G. UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION
- 2 MEDIAN NOSE STRIPING AND MARKINGS PER CITY OF AVONDALE STANDARD DETAIL A1601.
- 6 OBLITERATE EXISTING STRIPING
- 8 INSTALL "STOP AHEAD" THERMOPLASTIC PAVEMENT MARKING PER SECTION 462 OF M.C.D.O.T. SUPPLEMENT TO THE M.A.G. UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION. USE PAVEMENT LETTERS PER ADOT STD. DETAILS M-6, M-7 & M-8.
- 9 SIGN TO INCLUDE SOLAR POWERED FLASHING PERIMETER LIGHTS AND SOLAR PANEL.

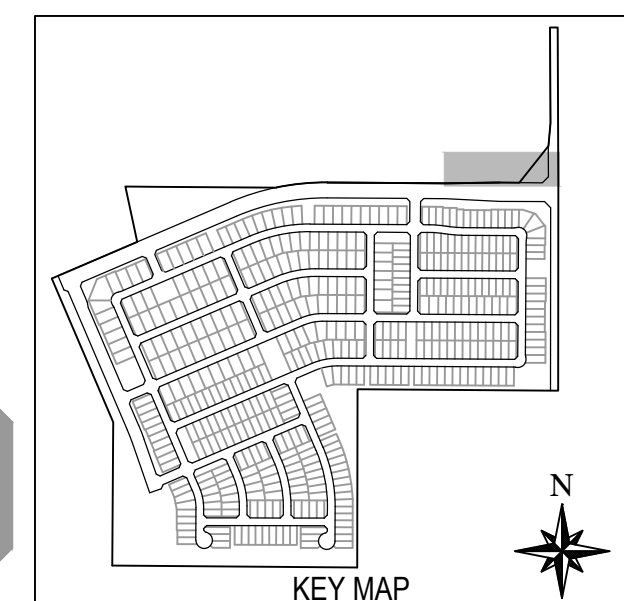


AVONDALE BOULEVARD

SEE AVONDALE BOULEVARD NORTH AND BROADWAY EAST SIGNING & MARKING PLAN

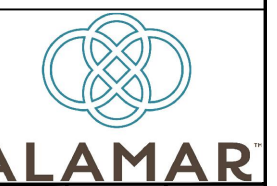
SEE AVONDALE BOULEVARD NORTH AND BROADWAY EAST SIGNING & MARKING PLAN

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SCALE (HORIZ.)	1" = 40'
SCALE (VERT.)	N/A

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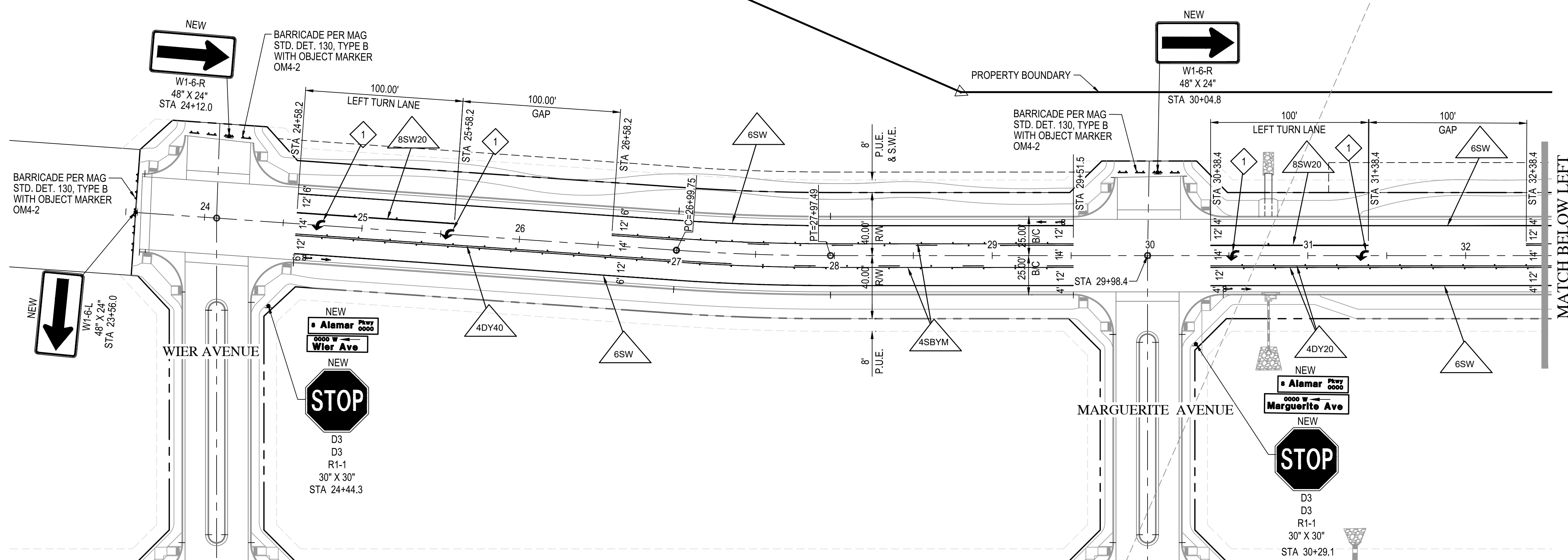


BROOKFIELD LAKIN, LLC
ALAMAR - PHASE 1
SIGNING AND MARKING PLAN
AVONDALE BOULEVARD, BROADWAY ROAD & ALAMAR PARKWAY

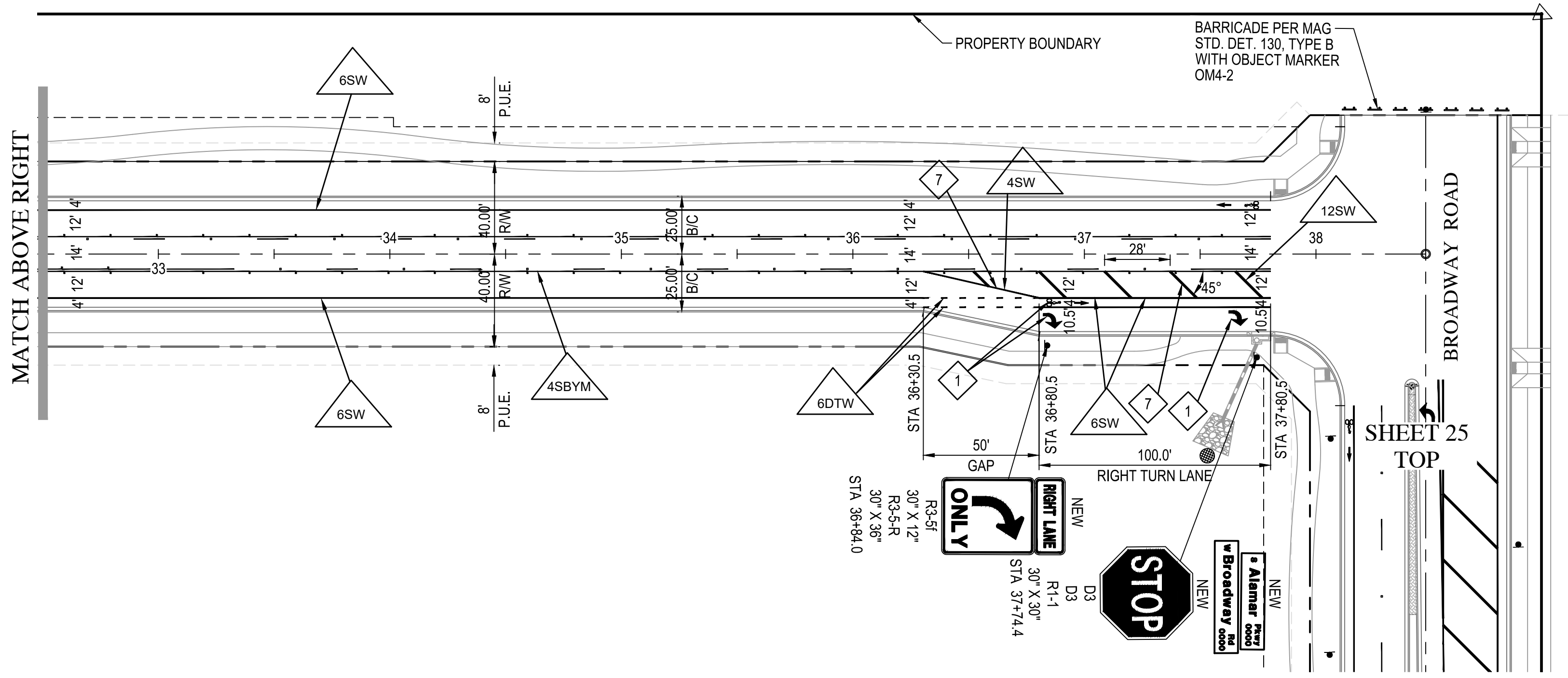


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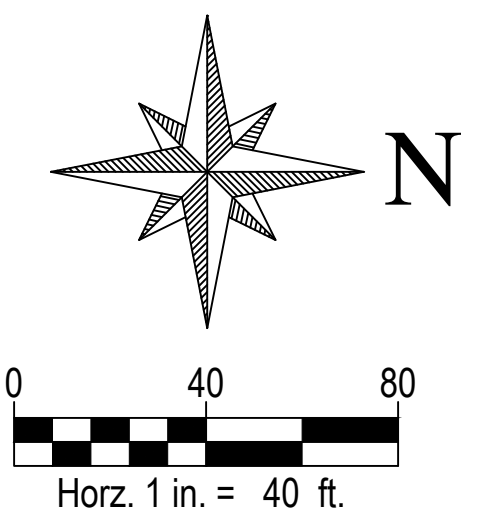
PLAN DATE	2/1/2019
LATEST REVISION DATE	
SHEET NUMBER	27 OF 30
PROJECT NUMBER	174612.04



ALAMAR PARKWAY

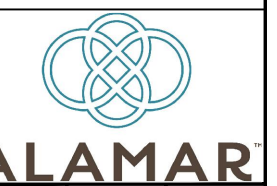


ALAMAR PARKWAY

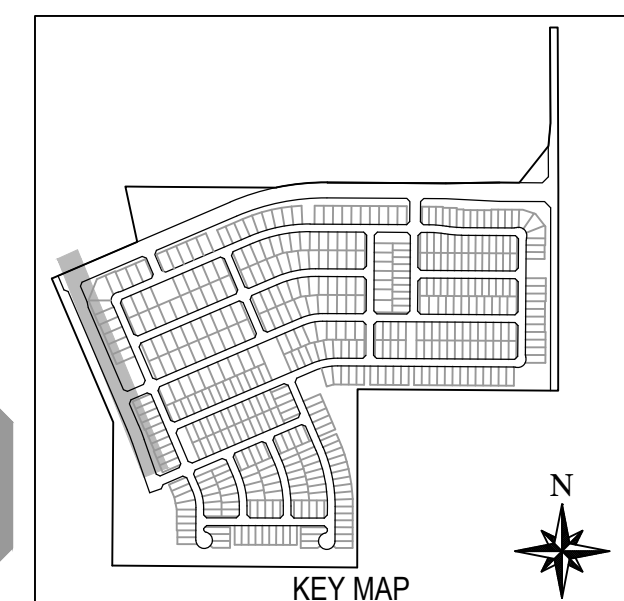


- SIGNING & STRIPING NOTES**
- 1 PAVEMENT MARKING PER CITY OF AVONDALE STANDARD DETAIL 1610. THERMOPLASTIC MARKING PER SECTION 462 OF M.C.D.O.T. SUPPLEMENT TO THE M.A.G. UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION
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BROOKFIELD LAKIN, LLC
ALAMAR - PHASE 1
SIGNING AND MARKING PLAN
AVONDALE BOULEVARD, BROADWAY ROAD & ALAMAR PARKWAY



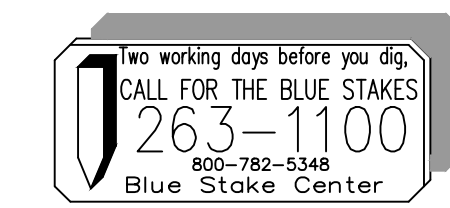
No working days before you dig.
CALL FOR THE BLUE STAKES
263-1100
800-782-5348
Blue Stakes Center

NOTE:
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PLAN DATE
2/11/2019
LATEST REVISION DATE
SHEET NUMBER
28 OF 30
PROJECT NUMBER
174612.04

STA	SIGN CODE	WORK				OFFSET FROM BC/EOP		PANEL				GROUND MOUNT			POSTS		REMARKS	
		NEW	EXISTING		SEE REMARKS	LT (FT)	RT (FT)	LEGEND	SIGN SIZE		SHEETING TYPE AREA (SQ.FT.)		NO. POSTS	TYPE (LENGTH)		FOUNDATIONS		
			RELOCATE	REMOVE & SALVAGE					WIDTH (IN)	HEIGHT (IN)	H	D		P (FT)	U (FT)	P (EA)		U (EA)
BROADWAY ROAD																		
55+63.0	R1-1	X	*	*	X		3	STOP	36	36		6.25	1	12	*	1	*	ON PAVEMENT
55+63.0	D3	X	*	*	X		3	Broadway Rd	60	12	5.00		*	*	*	*	*	MOUNT ABOVE R1-1
55+63.0	D3	X	*	*	X		3	Avondale Blvd	66	12	5.50		*	*	*	*	*	MOUNT ABOVE D3
55+63.0	R1-1	X	*	*	*		4	STOP	36	36		6.25	1	12	*	1	*	
55+63.0	D3	X	*	*	X		4	Broadway Rd	60	12	5.00		*	*	*	*	*	MOUNT ABOVE R1-1
55+63.0	D3	X	*	*	X		4	Avondale Blvd	66	12	5.50		*	*	*	*	*	MOUNT ABOVE D3
55+76.0	R1-1		*	X	*			STOP					*	*	*	*	*	
55+76.0	D3		*	X	*			Broadway Rd					*	*	*	*	*	
55+76.0	D3		*	X	*			Avondale Blvd					*	*	*	*	*	
AVONDALE BOULEVARD																		
12+39.4	R8-3	X	*	*	*		3	NO PARKING	30	30	6.25		1	12	*	1	*	
13+23.5	W3-1	X	*	*	*		3	STOP AHEAD	36	36	9.00		1	12	*	1	*	INCLUDE SOLAR FLASHER
17+67.4	R2-1-45	X	*	*	*		3	SPEED LIMIT	30	36	7.50		1	12	*	1	*	
17+67.4	R8-3	X	*	*	X		3	NO PARKING	30	30	6.25		*	*	*	*	*	MOUNT BELOW R2-1-45
17+93.5	W2-1	*	*	*	X		15	CROSS ROAD					*	*	*	*	*	EXISTING TO REMAIN
17+93.5	W16-8	*	*	*	X		15	Broadway Rd					*	*	*	*	*	EXISTING TO REMAIN
21+66.5	D14-2a		*	X	*			ADOPT A HIGHWAY					*	*	*	*	*	
21+66.5	D14-2a	X	*	*	*		3	ADOPT A HIGHWAY	36	30	7.50		1	12	*	1	*	
22+08.5	R1-1	X	*	*	*		10	STOP	36	36		9.00	1	12	*	1	*	INCLUDE SOLAR FLASHER
22+08.5	D3	X	*	*	X		10	Avondale Blvd	66	12	5.50		*	*	*	*	*	MOUNT ABOVE R1-1
22+08.5	D3	X	*	*	X		10	Broadway Rd	60	12	5.00		*	*	*	*	*	MOUNT ABOVE D3
ALAMAR PARKWAY																		
23+56.0	W1-6-L	X	*	*	X		2	ONE DIRECTION ARROW	48	24	8.00		*	*	*	*	*	MOUNT ON BARRICADE
24+12.0	W1-6-R	X	*	*	X		2	ONE DIRECTION ARROW	48	24	8.00		*	*	*	*	*	MOUNT ON BARRICADE
24+44.3	R1-1	X	*	*	*		10	STOP	30	30		6.25	1	12	*	1	*	
24+44.3	D3	X	*	*	X		10	Wier Ave	36	12	3.00		*	*	*	*	*	MOUNT ABOVE R1-1
24+44.3	D3	X	*	*	X		10	Alamar Pkwy	36	12	3.00		*	*	*	*	*	MOUNT ABOVE D3
30+04.8	W1-6-R	X	*	*	X		2	ONE DIRECTION ARROW	48	24	8.00		*	*	*	*	*	MOUNT ON BARRICADE
30+29.1	R1-1	X	*	*	*		5	STOP	30	30		6.25	1	12	*	1	*	
30+29.1	D3	X	*	*	X		5	Marguerite Ave	48	12	4.00		*	*	*	*	*	MOUNT ABOVE R1-1
30+29.1	D3	X	*	*	X		5	Alamar Pkwy	36	12	3.00		*	*	*	*	*	MOUNT ABOVE D3
36+84.0	R3-5f	X	*	*	*		3	RIGHT LANE	30	12	2.50		*	*	*	*	*	
36+84.0	R3-5-R	X	*	*	X		3	RIGHT ONLY	30	36	7.50		1	12	*	1	*	MOUNT BELOW R3-5f
37+74.4	R1-1	X	*	*	*		5	STOP	30	30		6.25	1	12	*	1	*	
37+74.4	D3	X	*	*	X		5	Broadway Rd	60	12	5.00		*	*	*	*	*	MOUNT ABOVE R1-1
37+74.4	D3	X	*	*	X		5	Alamar Pkwy	36	12	3.00		*	*	*	*	*	MOUNT ABOVE D3
											112.50	31.25	10.00	120.00		10.00		SUBTOTAL
											463.83	43.75	47	564		47		TOTAL



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WOOD/PATEL
 MISSION: CLIENT SERVICE
 (602) 335-8500
 WWW.WOODPATEL.COM

ALAMAR

BROOKFIELD LAKIN, LLC
 PROJECT NAME
ALAMAR - PHASE 1
 PLAN TYPE
 SIGNING AND MARKING PLAN
 AVONDALE BOULEVARD, BROADWAY ROAD & ALAMAR PARKWAY

SEAL
 REGISTERED PROFESSIONAL ENGINEER
 31985
 FRANK MINGENKOO
 EXPIRES 12/31/21

PLAN DATE
 2/11/2019

LATEST REVISION DATE

SHEET NUMBER
 30 OF 30

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 174612.04