CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director

Mayor Timothy M. Keller

January 30, 2023

Atef A. Hanna, P.E.
Beacon Civil Engineering
8345 Gunn Highway
Tampa, FL 33626

RE: Take 5 Oil Change
10415 Central Ave NE
Grading and Drainage Plans
Engineer's Stamp Date: No Date
Hydrology File: L21D059B

Dear Mr. Hanna:

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

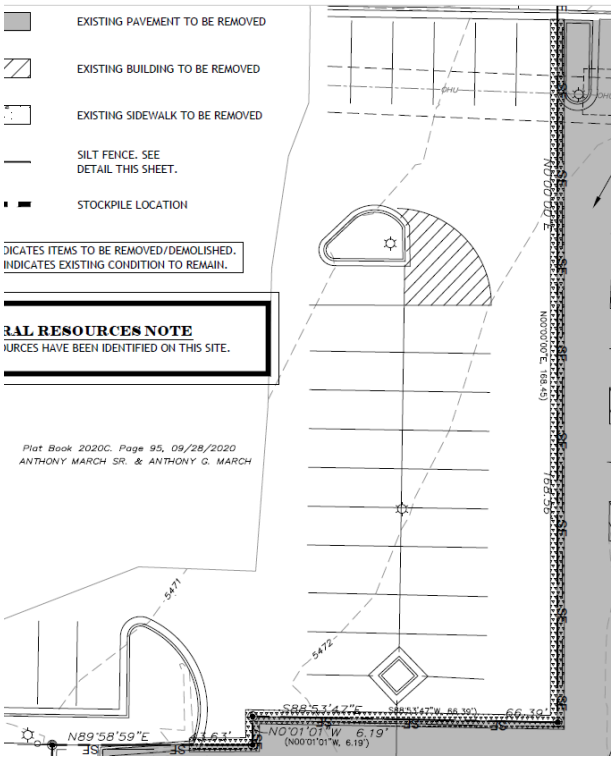
Based upon the information provided in your submittal received 01/30/2023, the Grading & Drainage Plans **are not** approved for Building Permit, Grading Permit, and SO-19 Permit. The following comments need to be addressed for approval of the above referenced project:

1. This private project is not a City of Albuquerque Department of Municipal Development project. Therefore, their Title Block is not needed and you can use your companies instead. The City does not care which one you use but private development typically uses their own.

2. Per the DPM, the following must be on the Grading Plan. Please note the Grading Plan must be a stand-alone construction document.

    a. Please provide an engineer's stamp **with a signature and date.**
    b. Please provide a Vicinity Map. Typically, this is the Zone Atlas. This can be downloaded in pdf format from the City of Albuquerque's website.
    c. Please provide the Benchmark information (location, description and elevation) for the survey contour information provided. This is a City Benchmark that the surveyor should have pulled from.
    d. Please provide a legal Description of the property.

3. Work on the adjacent property is prohibited without written notarized consent from that property owner. According to the Demolition Plan, the work stops along the property line. Therefore, please show the existing asphalt on the adjacent property. It appears that proposed project of Murphy's never proceeded.



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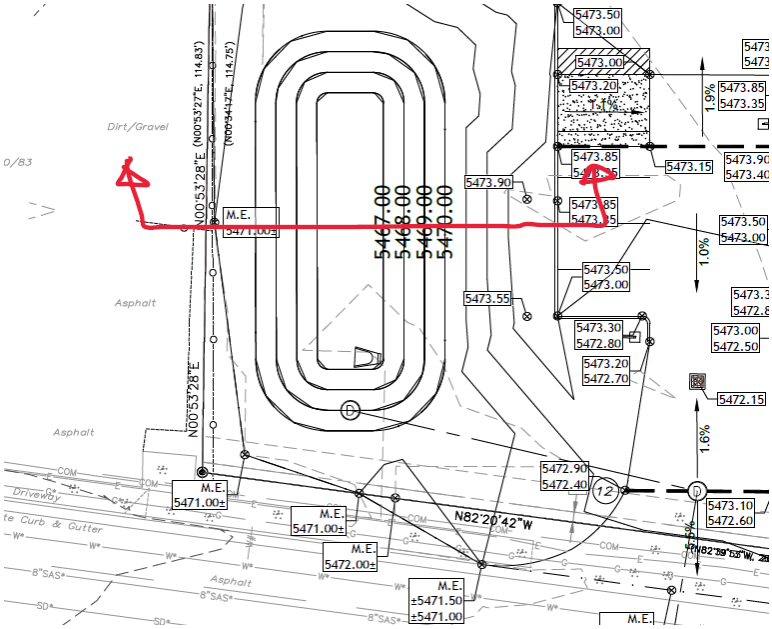
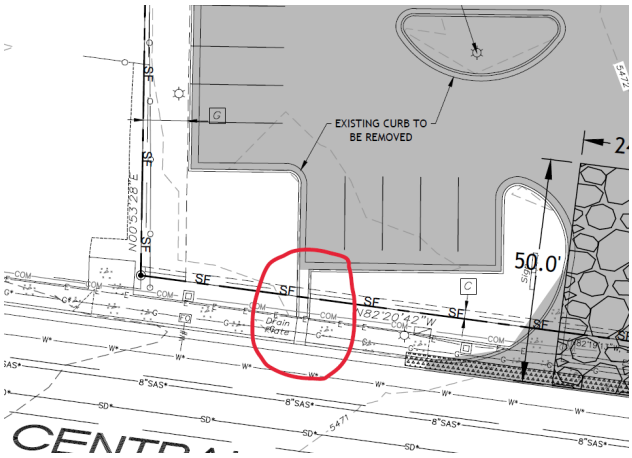
4. Please provide a cross section for the stormwater quality pond showing the top of pond, bottom of pond and the SWQ required volume elevation. Please add a note, "Side slopes need to be stabilized with Native Grass Seed (per City Spec 1012) with Aggregate Mulch or equal (Must satisfy the "Final Stabilization criteria" CGP 2.2.14.b.)".



5. Please add the volume provided under the Stormwater Quality Calculations.

6. For the outfall of the SWQ pond, an outfall pipe connecting to the existing storm sewer system in Central is not needed. Instead, a two-foot or one-foot sidewalk culvert (depending on site's discharge) at the elevation of the required SWQ volume elevation at the pond and the existing flowline elevation at the curb is all that is needed. There is an existing sidewalk culvert for the existing site that may be utilized if in good condition.



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7. So, if you use a new sidewalk culvert, please reference City of Albuquerque standard detail No. 2236 – Sidewalk Culvert with Steel Plate Top at the sidewalk culvert. Also, please provide the weir calculations, per DPM Article 6-16(A), for the curb cuts and sidewalk culverts. A coefficient of 2.7 is typically used for the weir equation $Q = CLH^{2/3}$.

8. A SO-19 Permit will be required for the sidewalk culvert. Please include the standard SO-19 notes (attached) on the grading plan.

9. Please use the procedure for 40 acre and smaller basins as outlined in Development Process Manual (DPM) Article 6-2(a). Please provide both the existing conditions and proposed conditions for the 100 year-6 hour storm event. These calculations should be on the Drainage Plan.

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov .

Sincerely,

Renée C. Brissette

Renée C. Brissette, P.E. CFM
Senior Engineer, Hydrology
Planning Department

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Albuquerque

NM 87103

www.cabq.gov

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title: Take 5 Car Wash Building Permit #: BP-2022-19563 Hydrology File #: _____

DRB#: NA EPC#: NA Work Order#: _____

Legal Description: _____

City Address: 10415 Central Ave NE

Applicant: M3 Design/Beacon Civil Contact: Jesse Macias/Dennis Pierce

Address: 2645 N 7th Avenue, Phoenix AZ 85007

Phone#: 480-528-3136 Fax#: _____ E-mail: jmacias@m3designllc.com

Owner: Driven Brands Contact: _____

Address: 440 S Church St #700, Charlotte NC 28202

Phone#: _____ Fax#: _____ E-mail: _____

TYPE OF SUBMITTAL: ____ PLAT (___# OF LOTS) ____ RESIDENCE ____ DRB SITE X ADMIN SITE

IS THIS A RESUBMITTAL?: _____ Yes X No

DEPARTMENT: ____ TRAFFIC/ TRANSPORTATION X HYDROLOGY/ DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

____ ENGINEER/ARCHITECT CERTIFICATION
____ PAD CERTIFICATION
____ CONCEPTUAL G & D PLAN
X GRADING PLAN
____ DRAINAGE MASTER PLAN
X DRAINAGE REPORT
____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
____ ELEVATION CERTIFICATE
____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT (TCL)
____ TRAFFIC IMPACT STUDY (TIS)
____ OTHER (SPECIFY) _____
____ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

____ BUILDING PERMIT APPROVAL
____ CERTIFICATE OF OCCUPANCY
____ PRELIMINARY PLAT APPROVAL
____ SITE PLAN FOR SUB'D APPROVAL
____ SITE PLAN FOR BLDG. PERMIT APPROVAL
____ FINAL PLAT APPROVAL
____ SIA/ RELEASE OF FINANCIAL GUARANTEE
____ FOUNDATION PERMIT APPROVAL
____ GRADING PERMIT APPROVAL
____ SO-19 APPROVAL
____ PAVING PERMIT APPROVAL
____ GRADING/ PAD CERTIFICATION
____ WORK ORDER APPROVAL
____ CLOMR/LOMR
____ FLOODPLAIN DEVELOPMENT PERMIT
____ OTHER (SPECIFY) _____

DATE SUBMITTED: 1-26-23 By: M3 Design

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

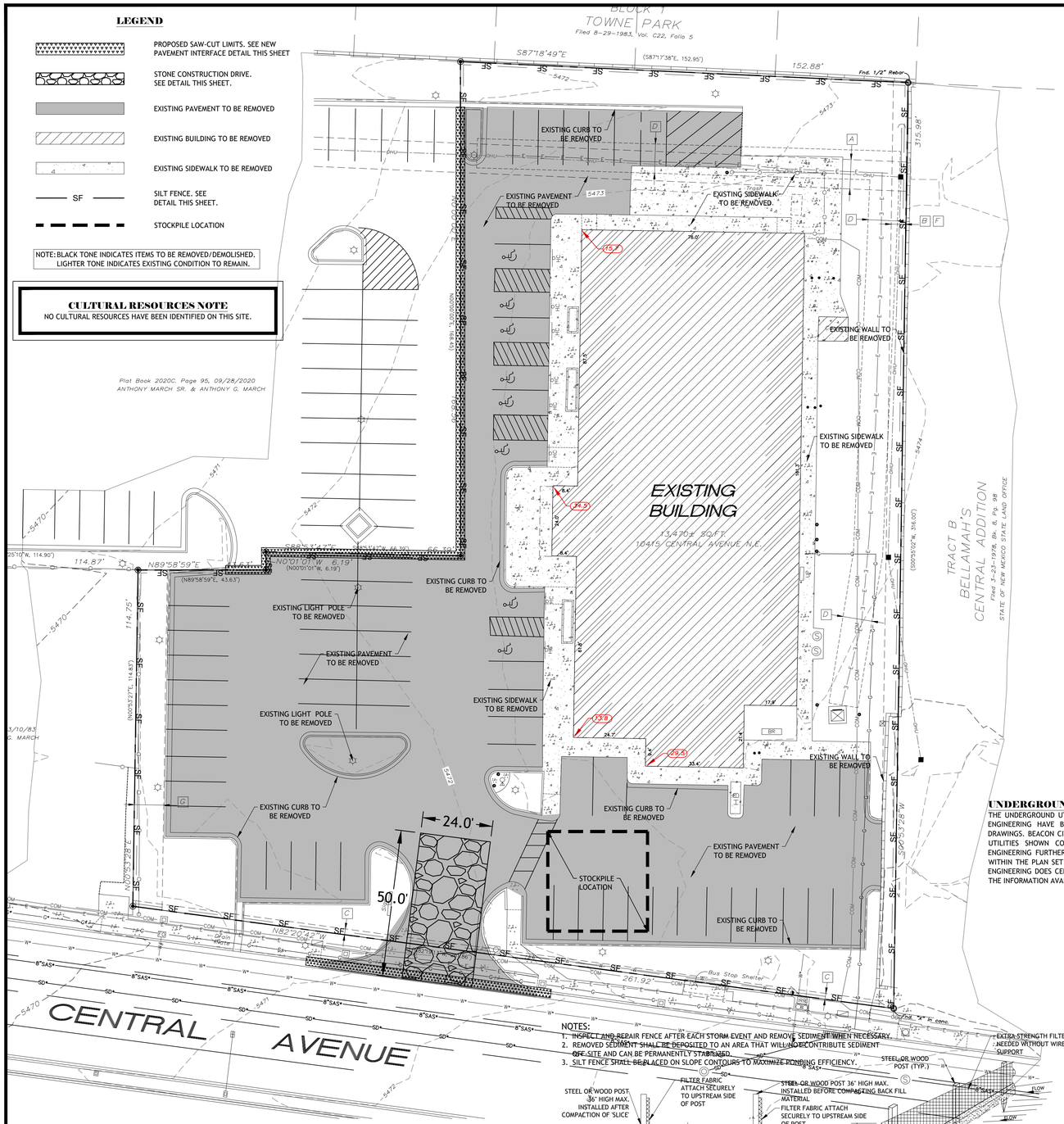
LEGEND

- PROPOSED SAW-CUT LIMITS. SEE NEW PAVEMENT INTERFACE DETAIL THIS SHEET
- STONE CONSTRUCTION DRIVE. SEE DETAIL THIS SHEET.
- EXISTING PAVEMENT TO BE REMOVED
- EXISTING BUILDING TO BE REMOVED
- EXISTING SIDEWALK TO BE REMOVED
- SF — SILT FENCE. SEE DETAIL THIS SHEET.
- STOCKPILE LOCATION

NOTE: BLACK TONE INDICATES ITEMS TO BE REMOVED/DEMOLISHED. LIGHTER TONE INDICATES EXISTING CONDITION TO REMAIN.

CULTURAL RESOURCES NOTE

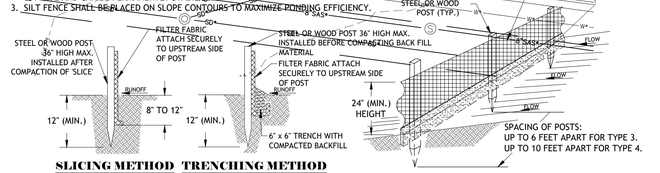
NO CULTURAL RESOURCES HAVE BEEN IDENTIFIED ON THIS SITE.



ENVIRONMENTAL NOTE

THE SUBJECT PLAN SET PRODUCED BY BEACON CIVIL ENGINEERING DO NOT DEPICT ENVIRONMENTAL CONDITIONS OR ANY ASSURANCE REGARDING THE PRESENCE OR ABSENCE OF ENVIRONMENTALLY IMPACTED SITE CONDITIONS. BEACON CIVIL ENGINEERING IS NOT RESPONSIBLE FOR EXPLORATION, TESTING, FINDINGS OR OTHER ENVIRONMENTAL SERVICES RELATED TO, BUT NOT LIMITED TO, THE DETERMINATION OF THE POTENTIAL FOR CHEMICAL, TOXIC, RADIOACTIVE OR OTHER TYPE OF CONTAMINANTS AFFECTING THE PROPERTY FOR THE SUBJECT PROJECT. IF ANY ENVIRONMENTAL CONTAMINATION OR WASTE IS DISCOVERED, THE OWNER AND CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LAWS AND REGULATIONS.

NOTES:
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.



STAKED SILT FENCE DETAIL
N.T.S.

UNDERGROUND UTILITIES NOTE

THE UNDERGROUND UTILITIES SHOWN WITHIN THE PLAN SET PROVIDED BY BEACON CIVIL ENGINEERING HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. BEACON CIVIL ENGINEERING MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE OF ALL SUCH UTILITIES IN THE AREA. BEACON CIVIL ENGINEERING FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN WITHIN THE PLAN SET ARE IN THE EXACT LOCATION INDICATED. HOWEVER, BEACON CIVIL ENGINEERING DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE.

NOTES:
1. PROVIDE ASPHALT SPLICE AT ALL TRANSITIONS BETWEEN NEW AND EXISTING PAVEMENT SECTIONS.
2. 12-INCH MINIMUM ASPHALT REMOVAL, MAY VARY AT THE DISCRETION OF THE OWNER'S/JURISDICTIONAL'S REPRESENTATIVE. (MORE BUT NOT LESS THAN 12 INCHES)
3. RESTORE EXISTING BASE TO ORIGINAL CONDITION OR BETTER.

ASPHALT PAVEMENT INTERFACE DETAIL
N.T.S.

DEMOLITION NOTES

1. ALL ITEMS NOT CALLED OUT TO BE REMOVED/RELOCATED SHALL BE PROTECTED DURING ALL THE PHASES OF CONSTRUCTION UNTIL FINAL ACCEPTANCE BY THE GOVERNING JURISDICTION(S).
2. CONTRACTORS SHALL COORDINATE WITH ALL UTILITY COMPANIES CONCERNING THE ABANDONMENT, RELOCATION AND/OR DEMOLITION OF UTILITIES PRIOR TO CONSTRUCTION. NO WORK IS TO BE PERFORMED ON LIVE LINES UNLESS APPROVED IN WRITING BY THE UTILITY IN ALL CASES. A REPRESENTATIVE FROM THE UTILITY SHALL BE PRESENT FOR INITIAL ABANDONMENT AND/OR LIVE CUTS. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR UTILITIES AND SHALL PROTECT THEM AT ALL TIMES.
3. THE CONTRACTOR IS FULLY AND COMPLETELY RESPONSIBLE FOR LOCATION , VERIFICATION, PROTECTION, STORAGE, MAINTENANCE, DEMOLITION, REMOVAL, RELOCATION OR ALTERATION OF ALL EXISTING SITE UTILITIES, SITE IMPROVEMENTS, STRUCTURES, OR CONSTRUCTION ELEMENTS AS REQUIRED TO COMPLETE THE WORK THAT ARE SHOWN ON THE PLANS AND OR THAT ARE OBSERVABLE IN THE FIELD, WHETHER CONSPICUOUSLY VISIBLE OR NOT. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING IMPROVEMENTS, UTILITIES, AND SITE CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION.
4. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS WITH ALL DEMOLITION ACTIVITIES. IF ADDITIONAL REQUIREMENTS ARE REQUIRED FOR HAZARDOUS WASTE REMOVAL INCLUDING BUT NOT LIMITED TO ASBESTOS, SEPTIC FIELDS, LEAD, PCB, TCP, OR OTHER WASTE OR CONTAINMENT, IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH MANDATES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR THE PROCUREMENT OF ALL NECESSARY PERMITS.
6. THE CONTRACTOR SHALL COORDINATE ALL TREE AND LANDSCAPE REMOVAL WITH THE LANDSCAPE PLANS. CONTRACTOR SHALL NOTIFY E.O.R. IF ANY DISCREPANCIES OCCUR BETWEEN THE DEMOLITION PLAN AND THE LANDSCAPE PLANS.
7. SAWCUT DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD STAKE AND CONSULT ENGINEER OF RECORD PRIOR TO CONSTRUCTION, IF NECESSARY.
8. THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS OF DAMAGE TO ALL ITEMS THAT ARE TO REMAIN. ALL REPAIRS SHALL USE NEW MATERIAL. THE REPAIRS SHALL RESTORE THE ITEM TO THE PRE-DEMOLITION CONDITION. SUCH REPAIRS SHALL BE PERFORMED AT THE CONTRACTOR'S SOLE EXPENSE.
9. THE CONTRACTOR SHALL NOT PERFORM ANY EARTH MOVEMENT ACTIVITIES, DEMOLITION OR REMOVAL OF FOUNDATION WALLS, FOOTINGS, OR OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE UNLESS IT IS IN STRICT ACCORDANCE WITH GOVERNING JURISDICTION(S), THE PROJECT PLANS, AND SPECIFICATIONS.
10. ALL EXCAVATION RESULTING FROM, OR INCIDENTAL TO, DEMOLITION ACTIVITIES SHALL BE BACKFILLED BY THE CONTRACTOR WITH APPROVED MATERIALS, AND SHALL BE SUFFICIENTLY COMPACTED TO SUPPORT NEW IMPROVEMENTS AND IN COMPLIANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT. BACKFILLING SHALL OCCUR IMMEDIATELY AFTER DEMOLITION ACTIVITIES, AND SHALL BE DONE SO AS TO PREVENT WATER ENTERING THE EXCAVATION. FINISHED SURFACES SHALL BE GRADED TO PROMOTE POSITIVE DRAINAGE.
11. THE USE OF EXPLOSIVES IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF BOTH THE OWNER AND ALL APPLICABLE GOVERNMENTAL AUTHORITIES.
12. CONTRACTOR SHALL CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND OTHER ADJACENT FACILITIES. M.O.T. PERMITS MUST BE RECEIVED FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY PRIOR TO THE COMMENCEMENT OF ANY ROAD OPENING OR DEMOLITION ACTIVITIES IN OR ADJACENT TO THE RIGHT-OF-WAY.
13. DEMOLITION ACTIVITIES AND EQUIPMENT SHALL NOT OCCUR OR BE STORED OUTSIDE THE DEFINED PROJECT LIMIT LINE, WITHOUT WRITTEN PERMISSION OF THE OWNER(S) AND ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION.
14. THE CONTRACTOR SHALL USE DUST CONTROL MEASURES TO LIMIT AIRBORNE DUST AND DIRT IN ACCORDANCE WITH FEDERAL, STATE, AND/OR LOCAL STANDARDS. ONCE THE DEMOLITION PHASE IS OVER, ADJACENT STRUCTURES AND IMPROVEMENTS SHALL BE CLEANED OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS.
15. THE CONTRACTOR IS RESPONSIBLE FOR SAFEGUARDING THE SITE DURING DEMOLITION/CONSTRUCTION IN SUCH A MANNER AS TO PREVENT THE ENTRY OF UNAUTHORIZED PERSONS AT ANY TIME.
16. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF BARRIERS, FENCING AND OTHER APPROPRIATE SAFETY ITEMS NECESSARY TO PROTECT THE PUBLIC FROM AREAS OF CONSTRUCTION AND CONSTRUCTION ACTIVITY.
17. ALL DEMOLITION WASTE AND DEBRIS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL MUNICIPAL, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES. THE CONTRACTOR SHALL MAINTAIN RECORDS TO PROVE PROPER DISPOSAL ACTIVITIES, TO BE PROVIDED TO THE OWNER UPON REQUEST. UNDER NO CIRCUMSTANCES SHALL DEBRIS BE BURIED ON THE SUBJECT SITE.
18. THE CONTRACTOR SHALL NOT IMPACT ANY WETLANDS THROUGH CONSTRUCTION ACTIVITIES IN ANY WAY UNLESS APPROVED BY E.O.R. AND GOVERNING JURISDICTION(S).
19. BEACON CIVIL ENGINEERING AND THE E.O.R. IS NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION. CONTRACTOR IS TO PROCEED WITH THE DEMOLITION IN A SAFE AND SYSTEMATIC MANNER, FOLLOWING ALL THE OSHA REQUIREMENTS TO ENSURE PUBLIC AND CONTRACTOR SAFETY.
20. THE DEMOLITION PLAN IS INTENDED TO IDENTIFY THE EXISTING ITEMS/CONDITIONS WHICH ARE TO BE REMOVED, RELOCATED, OR MADE AWARE OF. THE DEMOLITION PLAN DOES NOT PROVIDE DIRECTION AS TO THE MEANS AND METHODS USED TO ACCOMPLISH THAT WORK. ALL MEANS AND METHODS UTILIZED ARE TO BE IN STRICT ACCORDANCE WITH ALL STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL OSHA AND OTHER SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE.
22. ALL WELLS TO BE ABANDONED BY A NEW MEXICO LICENSED WATER WELL CONTRACTOR IN ACCORDANCE WITH RULE 40D-3.531 (2) F.A.C.

TEMPORARY CONSTRUCTION ENTRANCE DETAIL
N.T.S.

811
CALL NM ONE-CALL SYSTEM SEVEN (7) DAYS PRIOR TO ANY EXCAVATION

CONSULTANTS
BEACON CIVIL ENGINEERING
LAND DEVELOPMENT ENGINEERS
8345 GUNN HIGHWAY
TAMPA, FL 33626

BENCH MARKS
TO REACH THE STATION FROM THE INTERSECTION OF BROADWAY BOULEVARD AND CENTRAL AVENUE, TRAVEL NORTH 0.45 MILES ON BROADWAY AVENUE TO LOMAS AVENUE. TURN LEFT ONTO LOMAS AND GO WEST 0.7 MILES TO 8TH STREET AND THE STATION IN THE MEDIAN ON THE WEST SIDE OF THE INTERSECTION. THE STATION MARK IS A CITY OF ALBUQUERQUE SURVEY CONTROL 3 1/4 INCH ALUMINUM DISC STAMPED "17-J14 1983" SET FLUSH WITH THE TOP OF THE CONCRETE.

SEAL
ATEF A. HANNA, NEW MEXICO, 27436, PROFESSIONAL ENGINEER
ATEF A. HANNA, PE #27436

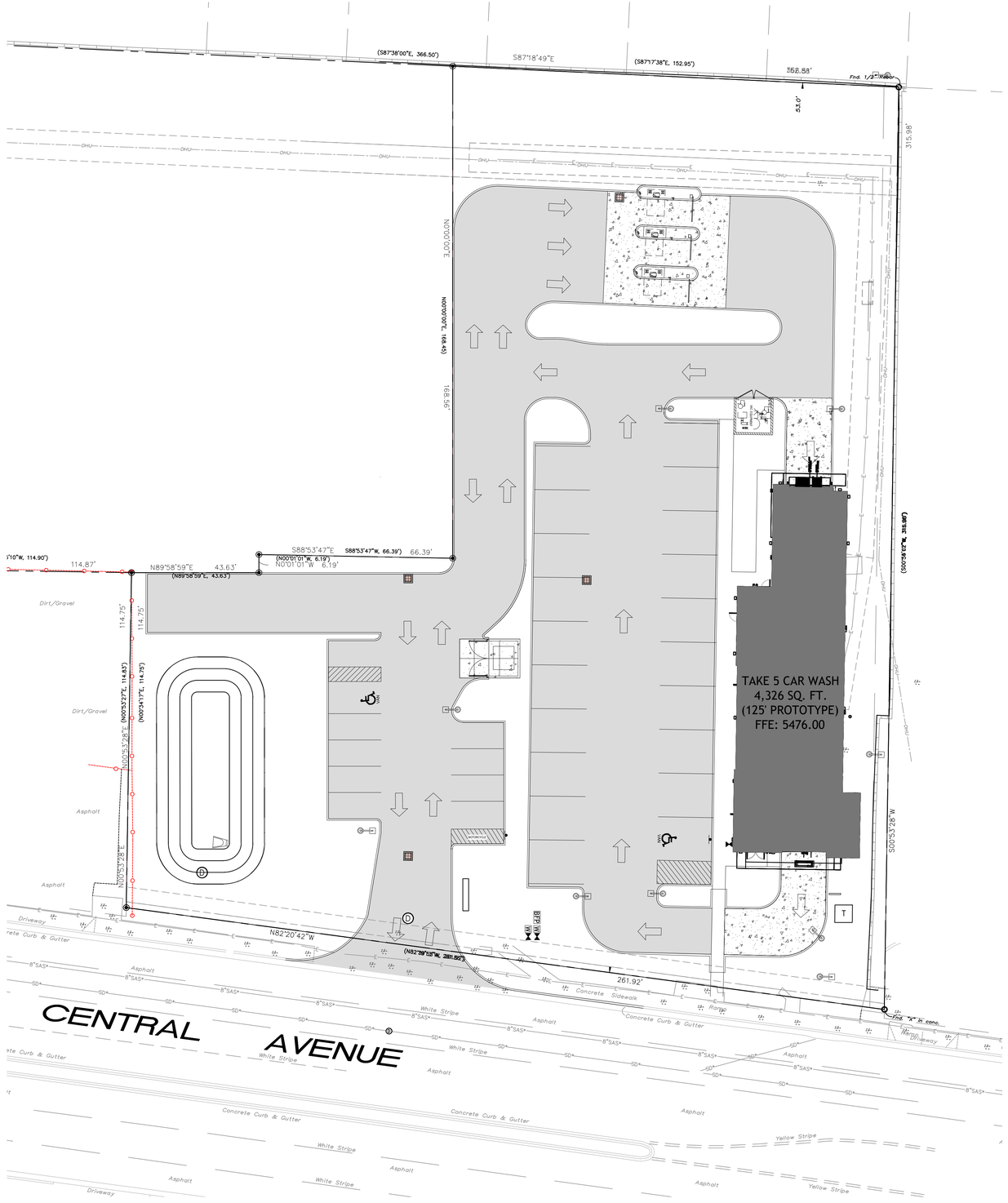
NO.	DATE	DESCRIPTION	BY
		AS-BUILT INFORMATION	
		CONTRACTOR:	
		WORK STAKED BY:	DATE:
		INSPECTOR'S ACCEPTANCE BY:	DATE:
		FIELD VERIFICATION BY:	DATE:
		DRAWINGS CORRECTED BY:	DATE:

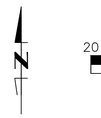
DESIGNED BY: CB
DRAWN BY: CB
CHECKED BY: AAH
DATE 4/2022

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

EXISTING CONDITIONS AND DEMOLITION PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	ZONE MAP NO. Z-99
		CITY PROJECT NO. 000000
	C-2.0	SHEET NO.

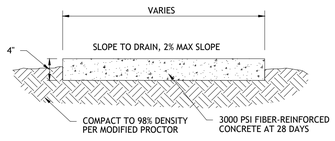




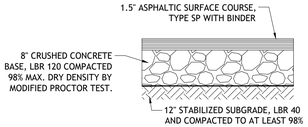
LEGEND

PROPOSED ASPHALT PAVEMENT (32,116 SF)

PROPOSED CONCRETE PAVEMENT (3,496 SF)



SIDEWALK SECTION
N.T.S.

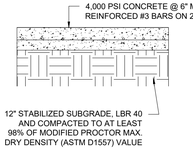


PROFILE VIEW

ASPHALT NOTES

1. THE ASPHALT SURFACE COURSE SHOULD CONFORM TO THE MOST RECENT EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
2. THE BASE COURSE SHOULD CONFORM TO THE LATEST EDITION OF FDOT ROAD AND BRIDGE CONSTRUCTION SPECIFICATIONS SUPPLEMENTAL SECTION 204. BASE COURSE SHALL BE COMPACTED TO 98% OF THE MODIFIED PROCTOR (ASTM D-1557) MAXIMUM DRY DENSITY.
3. ASPHALT SHOULD BE COMPACTED TO A MINIMUM OF 93% OF LABORATORY MAXIMUM DESIGN MIX DENSITY DETERMINED FROM SPECIFIC GRAVITY METHODS WITH IND. TEST TOLERANCE OF +2% AND -1.2% OF DESIGN Gmm.
4. PLASTIC CLAY SHALL NOT BE ALLOWED TO STABILIZE THE SUBGRADE.
5. CRUSHED CONCRETE SHALL BE SOURCED FROM APPROVED FDOT SUPPLIER.

ASPHALT PAVEMENT SECTION
N.T.S.



NOTES

1. SUBGRADE SOILS MUST BE DENSIFIED TO AT LEAST 98% MPMDD TO A DEPTH OF AT LEAST 1-FOOT DIRECTLY BELOW THE BOTTOM OF CONCRETE SLAB.
2. THE SURFACE OF THE SUBGRADE SOILS MUST BE SMOOTH, AND ANY DISTURBANCES OR WHEEL RUTTING CORRECTED PRIOR TO PLACEMENT OF CONCRETE.
3. THE SUBGRADE SOILS MUST BE MOISTENED PRIOR TO PLACEMENT OF CONCRETE.
4. CONCRETE PAVEMENT THICKNESS SHOULD BE UNIFORM THROUGHOUT, WITH EXCEPTION TO THE THICKENED EDGES (CURB OR FOOTING).
5. THE BOTTOM OF THE PAVEMENT SHOULD BE SEPARATED FROM THE ESTIMATED SHWT LEVEL BY AT LEAST 24 INCHES.
6. SLAB THICKNESS FOR STANDARD DUTY CONCRETE PAVEMENTS ARE BASED ON (1) THE SUBGRADE SOILS DENSIFIED TO AT LEAST 98% MPMDD, (2) MODULUS OF SUBGRADE REACTION (K) EQUAL TO 150 PCI, (3) A 30-YEAR DESIGN LIFE, AND (4) TOTAL EQUIVALENT 18 KIP SINGLE AXLE LOADS (ESAL) OF 45,000.
7. MAXIMUM CONTROL JOINT SPACING SHALL BE 10'x10'.
8. CONCRETE PAVEMENT TO MEET PROPOSED DESIGN PER GEOTECHNICAL REPORT OR EQUIVALENT, AND NO LEES THAN MINIMUM JURISDICTIONAL REQUIREMENT.

CONCRETE PAVEMENT SECTION
N.T.S.

SITE NOTES

1. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING IMPROVEMENTS AND TREES AND OTHER DEBRIS WITHIN THE LIMITS OF THE WORK FROM THE SITE. ON SITE BURIAL OF TREES AND OTHER DEBRIS WILL NOT BE ALLOWED. THERE ARE NO KNOWN INERT BURY PITS ON THE SITE AND NONE WILL BE ALLOWED DURING THE CONSTRUCTION OF THE PROJECT.
2. ALL WORK SHALL COMPLY WITH ALL GOVERNING JURISDICTIONS, STATE OF NEW MEXICO, AND FEDERAL CODES AND ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER.
3. ALL WORK SHALL BE PERFORMED IN A FINISHED AND WORKMANLIKE MANNER TO THE ENTIRE SATISFACTION OF THE OWNER, AND IN ACCORDANCE WITH THE BEST RECOGNIZED TRADE PRACTICES.
4. ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER PRIOR TO USE.
5. ALL WORK PERFORMED ON CITY, COUNTY, AND/OR STATE OR FEDERAL RIGHT-OF-WAY SHALL BE IN STRICT CONFORMANCE WITH APPLICABLE STANDARDS AND SPECIFICATIONS OF THE APPROPRIATE GOVERNING AGENCIES.
6. BASE COURSE MATERIALS, EQUIPMENT, METHODS OF CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO "STATE OF NEW MEXICO TRANSPORTATION STANDARD SPECIFICATIONS", CURRENT EDITION.
7. ALL BUILDING DIMENSIONS SHALL BE CHECKED AND COORDINATED WITH THE ARCHITECTURAL PLANS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
8. SEE PAVEMENT DETAILS THIS SHEET.
9. ALL DISTURBED AREAS WITHIN SIDEWALK/ CURB AND GUTTER/ ROAD PAVEMENT SHALL BE RESTORED TO ITS ORIGINAL OR BETTER CONDITIONS.
10. ALL DIMENSION ARE TO THE FACE OF CURB, UNLESS OTHERWISE NOTED.
11. THE PROPOSED DEVELOPMENT SHALL NOT IMPACT GROUND AND SURFACE WATER FLOWS ADJACENT TO THE SITE.
12. THE PROPOSED DEVELOPMENT SHALL NOT IMPACT ANY FLOODWAYS ADJACENT TO THE SITE.
13. BASE ON THE LATEST NEW MEXICO BUILDING CODE THIS SITE IS LOCATED IN ZONE "A" WITH ZERO SEISMIC PROBABILITY.
14. ALL SIDEWALKS SHALL HAVE A WIDTH OF 5 FEET, UNLESS OTHERWISE NOTED.
15. ALL RADII SHALL BE 3 FEET, UNLESS OTHERWISE NOTED.

CALL NM ONE-CALL SYSTEM SEVEN (7) DAYS PRIOR TO ANY EXCAVATION

CONSULTANTS

BEACON CIVIL ENGINEERING
LAND DEVELOPMENT ENGINEERS
8345 GUNN HIGHWAY
TAMPA, FL 33626

BENCH MARKS

TO REACH THE STATION FROM THE INTERSECTION OF BROADWAY BOULEVARD AND CENTRAL AVENUE, TRAVEL NORTH 0.45 MILES ON BROADWAY AVENUE TO LOMAS AVENUE. TURN LEFT ONTO LOMAS AND GO WEST 0.7 MILES TO 8TH STREET AND THE STATION IN THE MEDIAN ON THE WEST SIDE OF THE INTERSECTION. THE STATION MARK IS A CITY OF ALBUQUERQUE SURVEY CONTROL 3 1/4 INCH ALUMINUM DISC STAMPED "17-J14 1983" SET FLUSH WITH THE TOP OF THE CONCRETE.

SEAL

ATEF A. HANNA, PE #27436
NEW MEXICO
27436
PROFESSIONAL ENGINEER

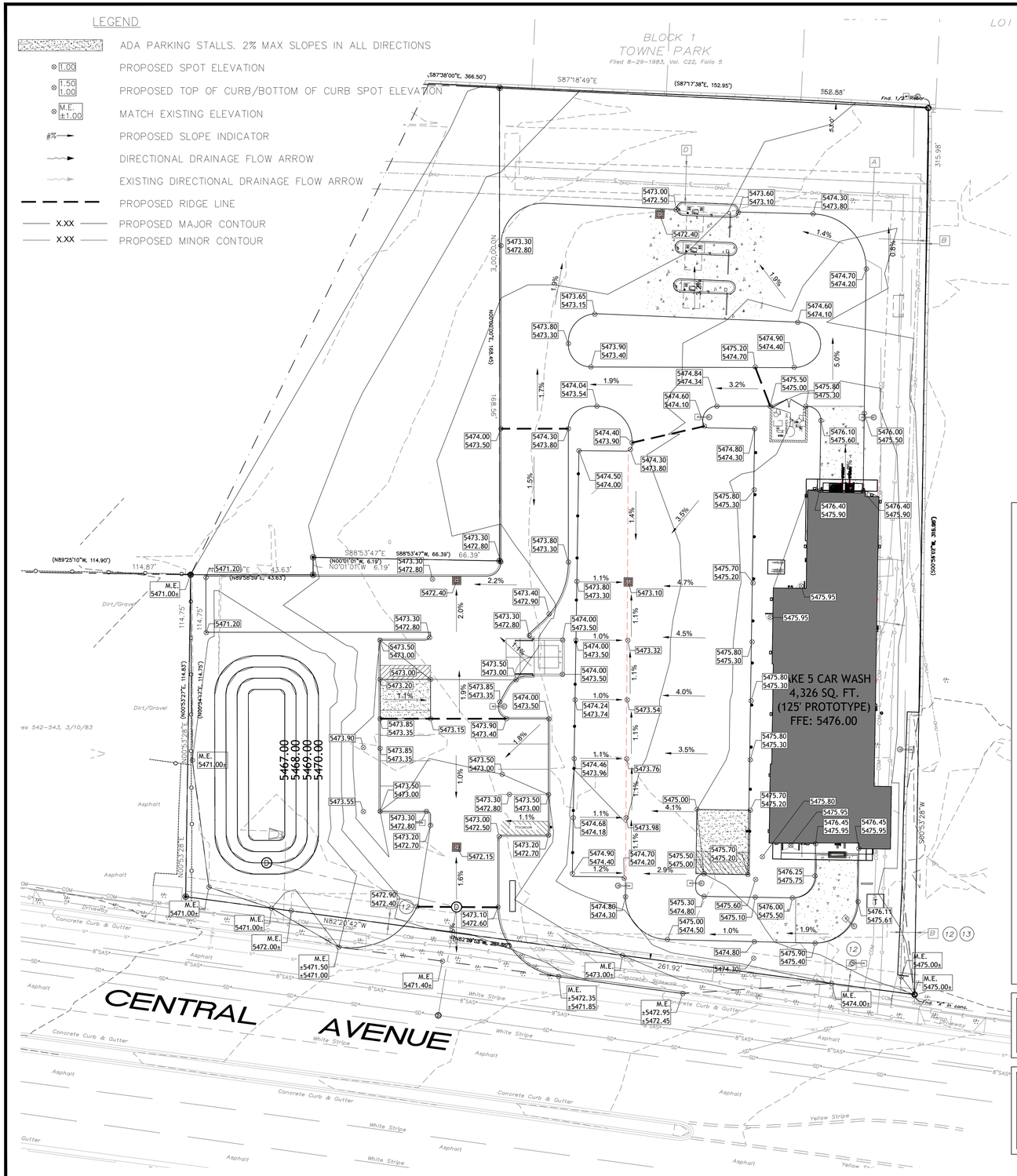
NO.	DATE	DESCRIPTION	BY
		AS-BUILT INFORMATION	
		CONTRACTOR:	
		WORK STAKED BY:	DATE:
		INSPECTOR'S ACCEPTANCE BY:	DATE:
		FIELD VERIFICATION BY:	DATE:
		DRAWINGS CORRECTED BY:	DATE:

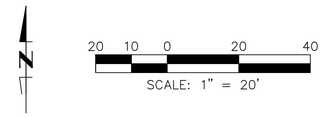
DESIGNED BY:	CB
DRAWN BY:	CB
CHECKED BY:	AAH
DATE	4/2022

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

PAVEMENT PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	ZONE MAP NO. Z-99
		CITY PROJECT NO. 000000
		SHEET NO. C3.0





GRADING & DRAINAGE NOTES

1. JURISDICTIONAL LAND DISTURBANCE PERMIT SHALL BE DISPLAYED ON SITE AT ALL TIMES DURING CONSTRUCTION AND BE VISIBLE TO THE PUBLIC.
2. TWO PERMANENT BENCHMARKS ON-SITE SHALL BE ESTABLISHED BY CONTRACTOR PRIOR TO STARTING CONSTRUCTION.
3. PROPOSED SPOT ELEVATIONS ARE TO THE TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
4. ALL REQUIRED FILL SHALL BE CLEAN, SUITABLE MATERIAL.
5. ALL AREAS DISTURBED OUTSIDE LIMITS OF GRADING SHOWN ON THE PLANS SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER BY THE CONTRACTOR.
6. CONTRACTOR SHALL MEET AND MATCH EXISTING (M.E.) PAVEMENT ALONG SAW-CUT LIMITS.
7. LENGTH OF PROPOSED RIP-RAP PADS AT PIPE OUTLET STRUCTURES SHALL BE A MINIMUM LENGTH OF SIX TIMES THE DIAMETER OF THE PIPE, IF APPLICABLE.
8. ALL FILL SHOULD BE PLACED IN THIN, HORIZONTAL LOOSE LIFTS, MAXIMUM 6 INCHES, AND COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698). A FLORIDA REGISTERED PROFESSIONAL SOILS ENGINEER SHALL CERTIFY THE SOIL COMPACTION PRIOR TO THE INSTALLATION OF PAVEMENTS, CURBS, SIDEWALKS OR FOOTINGS OF ANY TYPE. COMPACTION OF THE UPPER 8 INCHES OF SOIL BENEATH PAVEMENTS AND SLAB-ON-GRADE SHOULD BE COMPACTED TO AT LEAST 98%.
9. STORMWATER PONDS AND OUTLET STRUCTURES SHALL BE FULLY CONSTRUCTED AND OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
10. REFER TO LANDSCAPE PLAN FOR REQUIRED TREE AND GROUND COVER PLANTINGS.
11. SURFACE GRADE SLOPES SHALL BE A MINIMUM OF 1.00%
12. 4:1 MAXIMUM CUT AND FILL SLOPES
13. ADA ACCESSIBLE AREAS SHALL NOT HAVE A MAXIMUM CROSS-SLOPE THAT EXCEEDS 2.00% AND MAX LONGITUDINAL SLOPE OF 5.00% UNLESS A RAMP IS SPECIFIED. IF DISCREPANCIES OCCUR CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD IMMEDIATELY TO CONFIRM DESIGN TO ENSURE ADA ACCESSIBLE STANDARDS ARE MET.
14. ALL TRENCHING AND BACKFILL OPERATIONS SHALL COMPLY WITH GOVERNING JURISDICTIONAL STANDARDS. SEE SHEET C4.3 FOR PIPE TRENCHING DETAILS.
15. SEE SHEET C4.2-C4.4 FOR DETAILS.
16. ALL INLET GRATES SUBJECTED TO VEHICLE LOADING SHALL MEET H-20 TRAFFIC LOADING STANDARDS.

BUILDING ACCESS AND PROTECTION NOTES

1. THE CONTRACTOR SHALL MAINTAIN ACCESS FOR EMERGENCY VEHICLES AROUND AND TO ALL BUILDINGS UNDER CONSTRUCTION WITH A MINIMUM WIDTH OF 20 FT. THE ACCESS TO BUILDINGS WITH SPRINKLER OR STANDPIPE SYSTEMS SHALL BE WITHIN 40 FT OF THE FIRE DEPARTMENT CONNECTION ACCORDING TO NFPA 1141 3-1.
2. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING IN ALL AREAS AROUND BUILDING.

GRADING/DRAINAGE NARRATIVE

EXISTING CONDITIONS: THE SITE HAS AN ISR OF 0.78. DRAINAGE AREA CURRENTLY DRAINS VIA SHEET FLOW INTO RIGHT OF WAY.

PROPOSED CONDITIONS: THE PROPOSED SITE HAS AN ISR OF 0.68. DRAINAGE AREA BASIN WILL HAVE THE STORMWATER ROUTED TO THE ON-SITE INLETS FIRST AND OUTFALL VIA RCP PIPE INTO RIGHT OF WAY INLET.

PER ARTICLE 6.12 "STORM WATER QUALITY AND LOW IMPACT DEVELOPMENT, STORM WATER QUALITY VOLUME (SWQV) IS REQUIRED FOR THIS PREDEVELOPMENT BY MULTIPLYING 0.26 INCHES BY POST DEVELOPMENT IMPERVIOUS SURFACE, THEREFORE:
SWQV = (0.26/12) * 41,367 = 897 CU.FT.

FLOOD PLAIN

THE SITE IS LOCATED IN FLOOD ZONE "X" PER FEMA FLOOD MAP NO.35001C0336H, DATED 8/16/2012

VERTICAL DATUM

ELEVATIONS SHOWN HEREIN ARE BASED ON THE (NAVD) 88 AND SAID ELEVATIONS ARE BASED ON BENCHMARKS RESEARCHED BY THE SURVEYOR

CALL NM ONE-CALL SYSTEM SEVEN (7) DAYS PRIOR TO ANY EXCAVATION

CONSULTANTS

BEACON ENGINEERING
LAND DEVELOPMENT ENGINEERS
8345 GUNN HIGHWAY
TAMPA, FL 33626

BENCH MARKS

TO REACH THE STATION FROM THE INTERSECTION OF BROADWAY BOULEVARD AND CENTRAL AVENUE, TRAVEL NORTH 0.45 MILES ON BROADWAY AVENUE TO LOMAS AVENUE. TURN LEFT ONTO LOMAS AND GO WEST 0.7 MILES TO 8TH STREET AND THE STATION IN THE MEDIAN ON THE WEST SIDE OF THE INTERSECTION. THE STATION MARK IS A CITY OF ALBUQUERQUE SURVEY CONTROL 3 1/4 INCH ALUMINUM DISC STAMPED "17-J14 1983" SET FLUSH WITH THE TOP OF THE CONCRETE.

SEAL

ATEF A. HANNA, NEW MEXICO, 27436, PROFESSIONAL ENGINEER

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CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

GRADING PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	ZONE MAP NO. Z-99
		CITY PROJECT NO. 000000
		SHEET NO. C4.0

LEGEND

- PROPOSED STORMWATER PIPE
- PROPOSED TYPE 'C' INLET SEE DETAIL ON SHEET C4.3
- B-# GEOTECH BORING LOCATION SEE GEOTECH REPORT FOR DETAILS.
- PROPOSED TYPE 'C' MANHOLE SEE DETAIL ON SHEET C4.3

EXISTING PERVIOUS/IMPERVIOUS

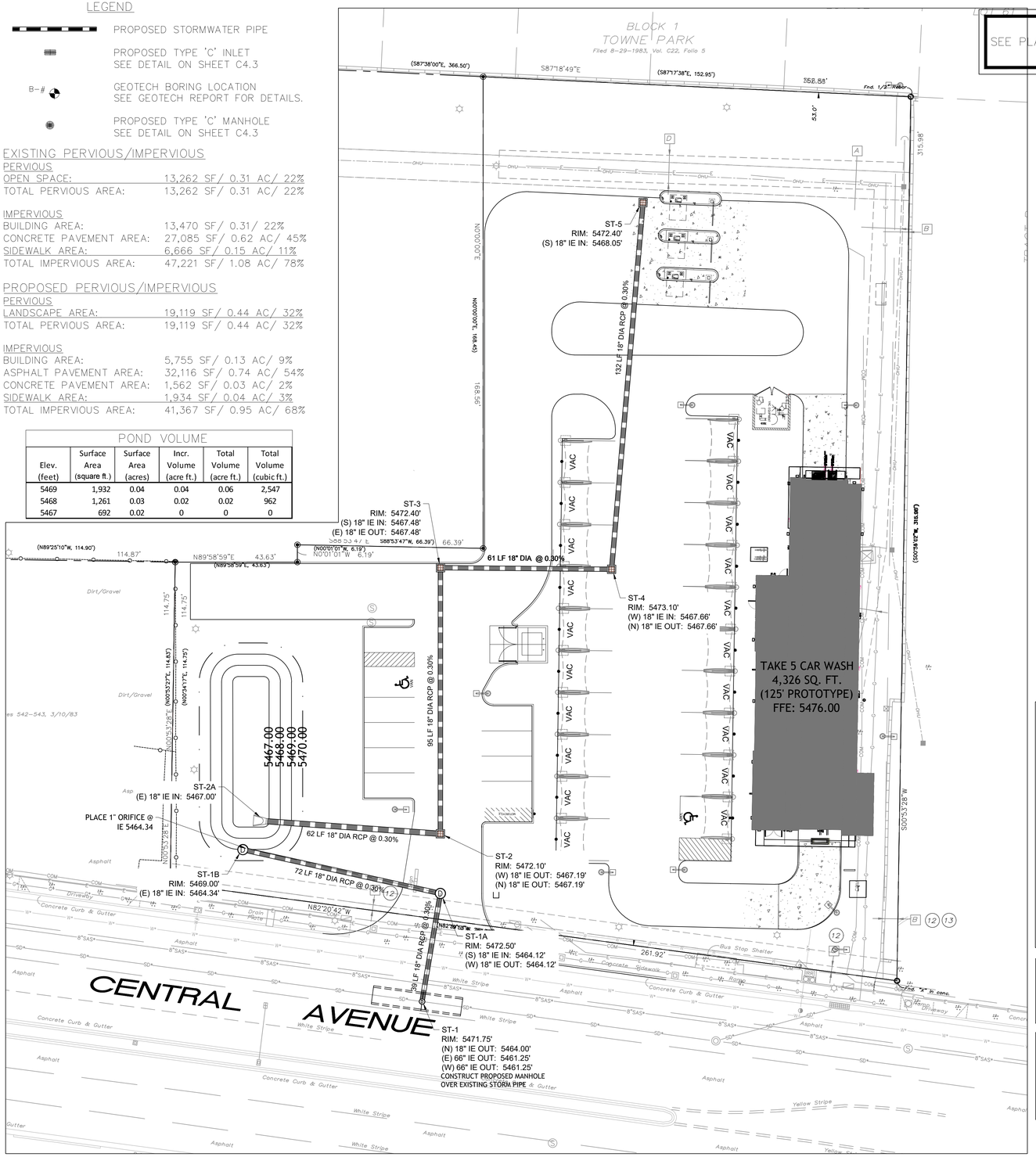
PERVIOUS	
OPEN SPACE:	13,262 SF/ 0.31 AC/ 22%
TOTAL PERVIOUS AREA:	13,262 SF/ 0.31 AC/ 22%
IMPERVIOUS	
BUILDING AREA:	13,470 SF/ 0.31/ 22%
CONCRETE PAVEMENT AREA:	27,085 SF/ 0.62 AC/ 45%
SIDEWALK AREA:	6,666 SF/ 0.15 AC/ 11%
TOTAL IMPERVIOUS AREA:	47,221 SF/ 1.08 AC/ 78%

PROPOSED PERVIOUS/IMPERVIOUS

PERVIOUS	
LANDSCAPE AREA:	19,119 SF/ 0.44 AC/ 32%
TOTAL PERVIOUS AREA:	19,119 SF/ 0.44 AC/ 32%
IMPERVIOUS	
BUILDING AREA:	5,755 SF/ 0.13 AC/ 9%
ASPHALT PAVEMENT AREA:	32,116 SF/ 0.74 AC/ 54%
CONCRETE PAVEMENT AREA:	1,562 SF/ 0.03 AC/ 2%
SIDEWALK AREA:	1,934 SF/ 0.04 AC/ 3%
TOTAL IMPERVIOUS AREA:	41,367 SF/ 0.95 AC/ 68%

POND VOLUME

Elev. (feet)	Surface Area (square ft.)	Surface Area (acres)	Incr. Volume (acre ft.)	Total Volume (acre ft.)	Total Volume (cubic ft.)
5469	1,932	0.04	0.04	0.06	2,547
5468	1,261	0.03	0.02	0.02	962
5467	692	0.02	0	0	0



STORM PROFILE

SEE PLAN SHEET C-4.2 FOR PROPOSED STORM PIPE NETWORK PROFILE

N

20 10 0 20 40

SCALE: 1" = 20'

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SWQV = (0.26/12) * 41,367 = 897 CU.FT.

PROVIDED VOLUME IN THE DETENTION AREA = 2,547 CU.FT.

FLOOD PLAIN

THE SITE IS LOCATED IN FLOOD ZONE "X" PER FEMA FLOOD MAP NO.35001C0359G, DATED 9/26/2008

VERTICAL DATUM

ELEVATIONS SHOWN HEREIN ARE BASED ON THE (NAVD) 88 AND SAID ELEVATIONS ARE BASED ON BENCHMARKS RESEARCHED BY THE SURVEYOR

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CONSULTANTS

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CIVIL ENGINEERING
LAND DEVELOPMENT ENGINEERS
8345 GUNN HIGHWAY
TAMPA, FL 33626

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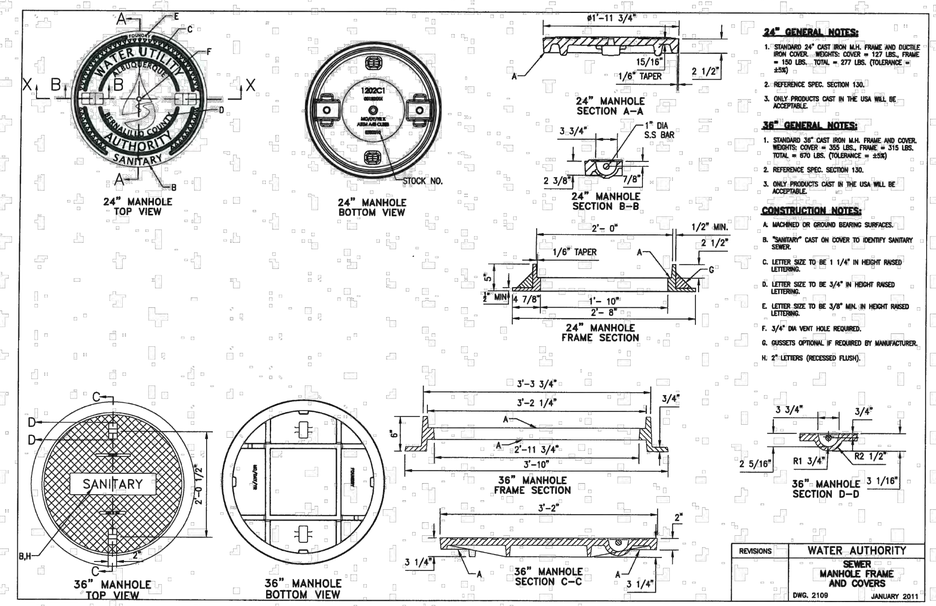
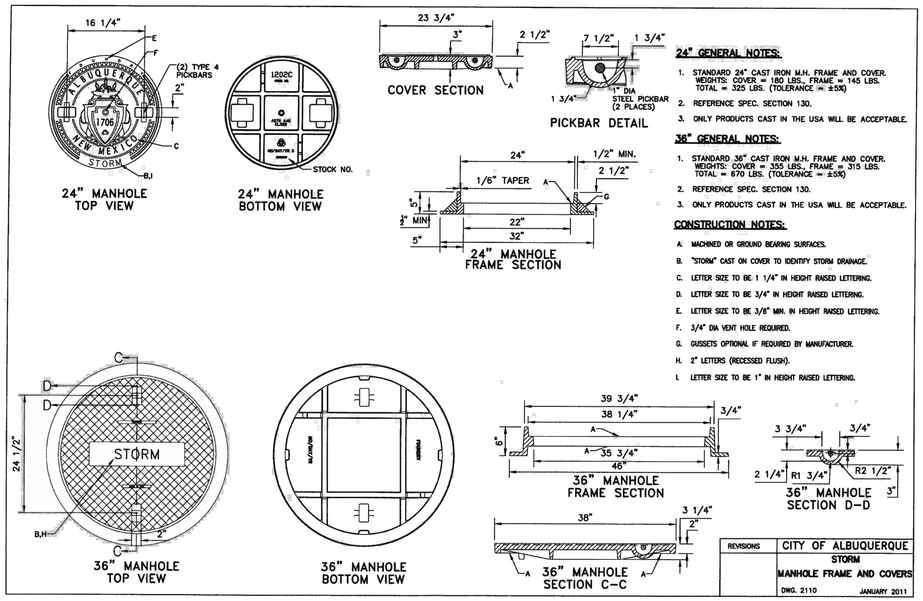
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

DRAINAGE PLAN

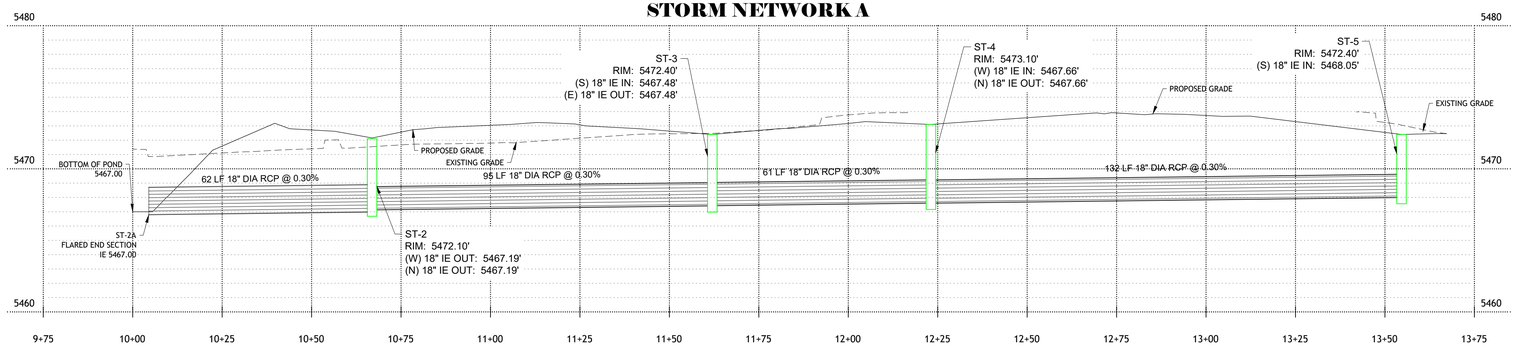
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL

ZONE MAP NO.	Z-99
CITY PROJECT NO.	000000
SHEET NO.	C4.1

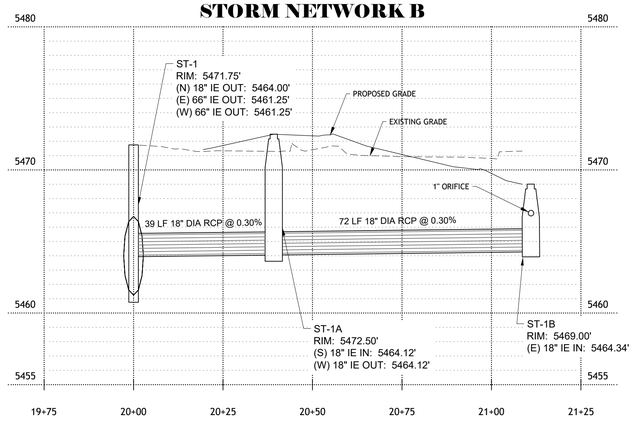




STORM NETWORK A



STORM NETWORK B



CONSULTANTS

BEACON ENGINEERING
LAND DEVELOPMENT ENGINEERS
8345 GUNN HIGHWAY
TAMPA, FL 33626

BENCH MARKS

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CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

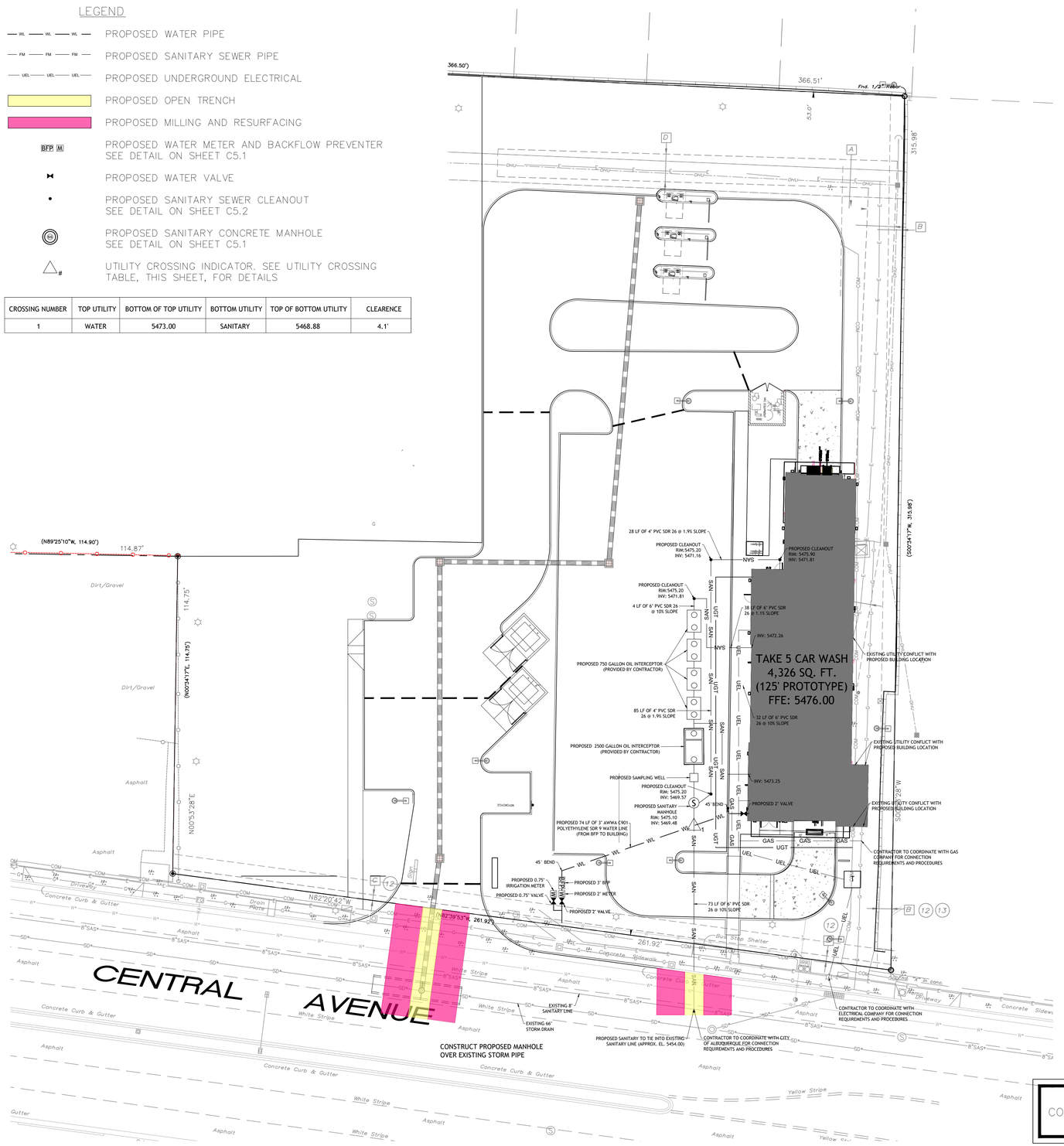
GRADING & DRAINAGE DETAILS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	ZONE MAP NO. Z-99
		CITY PROJECT NO. 000000
		SHEET NO. C4.2

LEGEND

- PROPOSED WATER PIPE
- PROPOSED SANITARY SEWER PIPE
- PROPOSED UNDERGROUND ELECTRICAL
- PROPOSED OPEN TRENCH
- PROPOSED MILLING AND RESURFACING
- PROPOSED WATER METER AND BACKFLOW PREVENTER SEE DETAIL ON SHEET C5.1
- PROPOSED WATER VALVE
- PROPOSED SANITARY SEWER CLEANOUT SEE DETAIL ON SHEET C5.2
- PROPOSED SANITARY CONCRETE MANHOLE SEE DETAIL ON SHEET C5.1
- UTILITY CROSSING INDICATOR. SEE UTILITY CROSSING TABLE, THIS SHEET, FOR DETAILS

CROSSING NUMBER	TOP UTILITY	BOTTOM OF TOP UTILITY	BOTTOM UTILITY	TOP OF BOTTOM UTILITY	CLEARENCE
1	WATER	5473.00	SANITARY	5468.88	4.1'



UTILITY NOTES

1. REFER TO SHEET C5.1 THRU SHEET C5.3 OR UTILITY DETAILS.
2. REFER TO MEP PLANS FOR ALL UTILITY LEADS INTO BUILDING.
3. SANITARY SEWER PIPES SHALL HAVE A MINIMUM SLOPE OF 1.00%.
4. PRIOR TO STARTING CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND THEIR LOCATIONS AND ELEVATIONS. IF ANY DISCREPANCIES OCCUR, THE CONTRACTOR SHALL ALERT ENGINEER IMMEDIATELY.
5. ALL PUBLIC UTILITIES INSPECTIONS SHALL BE SCHEDULED BY THE CONTRACTOR AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY.
6. ALL DEMOLITION AND CONSTRUCTION WORK PERFORMED SHALL BE DONE IN STRICT ACCORDANCE WITH GOVERNING JURISDICTIONAL CODES.
7. ALL UTILITY CONDUIT MATERIAL FOR TELEPHONE, CABLE, AND ELECTRIC SHALL BE INSTALLED PER UTILITY PROVIDER SPECIFICATIONS BY THE CONTRACTOR.
8. CONTRACTOR SHALL BUILD CONCRETE TRANSFORMER PAD AND INSTALL SCHEDULE 80 PVC CONDUIT AND PULL STRING WITH SWEEPING BENDS, IF APPLICABLE BY ELECTRIC COMPANY.
9. ALL SANITARY GRAVITY PIPES, SERVICE LATERALS, AND FITTINGS SHALL BE MATERIALS APPROVED BY THE GOVERNING JURISDICTION.
10. ALL NON-METALLIC PIPE WILL BE INSTALLED WITH 2 PAIR, 10 GAUGE, COPPER TRACE WIRE.
11. CONTRACTOR SHALL COORDINATE WITH GOVERNING JURISDICTION(S) FOR ANY PROPOSED WET TAPS AND R.O.W. CONNECTIONS.
12. ALL UTILITIES SHALL MAINTAIN AT LEAST 3 FEET OF COVER FROM TOP OF PIPE TO SURFACE ELEVATION. CONTRACTOR SHALL DEFLECT WATER AND FORCE MAINS AS NECESSARY TO ACHIEVE MINIMUM GOVERNING JURISDICTION(S) SEPARATION REQUIREMENTS.
13. CONTRACTOR MUST COORDINATE THE SHUTDOWN OF THE EXISTING POTABLE WATER, WASTEWATER FORCEMAIN, OR RECLAIMED WATER MAIN WITH GOVERNING JURISDICTION(S), IF NECESSARY.
14. OVER STORY TREES SHALL NOT BE LOCATED WITHIN 12 FT OF ANY PUBLIC UNDERGROUND OR OVERHEAD UTILITY LINE.
15. CONTRACTOR SHALL VERIFY LOOP DETECTORS TO AVOID UTILITY CONFLICTS PRIOR TO CONSTRUCTION, IF APPLICABLE.
16. CONTRACTOR SHALL PROTECT ALL UTILITIES OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTIONS PLANS OR SPECIFICATIONS.
17. ALL DISTURBED AREAS WITHIN THE SIDEWALK/ CURB AND GUTTER/ ROAD PAVEMENT SHALL BE RESTORED TO ITS ORIGINAL OR BETTER CONDITIONS.
18. THE SANITARY SEWER SYSTEM IN ALL ITS ENTIRETY IS PRIVATELY OWNED AND MAINTAINED WITHIN PROPERTY BOUNDARIES.
19. THE LOCATION OF ALL NEWLY INSTALLED FIRE HYDRANTS SHALL BE IDENTIFIED WITH A BLUE REFLECTIVE PAVEMENT MARKER INSTALLED ON THE ROADWAY, PERPENDICULAR TO THE FIRE HYDRANT. THE REFLECTIVE MARKER WILL BE LOCATED IN THE CENTER OF THE LANE CLOSEST TO THE HYDRANT, IF APPLICABLE.
20. IF APPLICABLE, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE FLOW TESTING AND COLOR CODING OF ALL NEWLY INSTALLED FIRE HYDRANTS IN THE GOVERNING JURISDICTION(S) RIGHT OF WAY AND UTILITY EASEMENTS THAT ARE TO BE DEDICATED TO GOVERNING JURISDICTION(S) PRIOR TO THE FINAL INSPECTION OF THE PROJECT. THE CONTRACTOR SHALL REFER TO NFPA STANDARD 291 FOR FLOW TESTING AND COLOR CODING METHODS AND PROCEDURES.
21. ALL PROPOSED WATER SUPPLY AND FIRE HYDRANTS SHALL COMPLY NFPA-1, CHAPTER 18.3
22. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD (E.O.R.) 72 HOURS IN ADVANCE OF ALL INSPECTIONS THAT REQUIRE THE E.O.R. OR E.O.R. REPRESENTATIVE'S PRESENCE.
23. CONTRACTOR SHALL DEFLECT ALL PROPOSED WATER MAINS AND FORCE MAINS TO ACHIEVE 18" MIN. VERTICAL CLEARANCE FROM ALL EXISTING AND PROPOSED UTILITIES.
24. CONTRACTOR SHALL ADJUST TOP OF ALL CLEANOUTS, VALVES, AND STRUCTURE RIMS TO BE FLUSH WITH FINAL GRADE.
25. ALL TRENCHING AND BACKFILL OPERATIONS SHALL COMPLY WITH GOVERNING JURISDICTIONAL STANDARDS. SEE SHEET C5.2 FOR PIPE TRENCHING DETAILS.

N

20 10 0 20 40

SCALE: 1" = 20'

811

CALL NM ONE-CALL SYSTEM SEVEN (7) DAYS PRIOR TO ANY EXCAVATION

UTILITY COORDINATION
CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION

CONSULTANTS
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LAND DEVELOPMENT ENGINEERS
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UTILITY PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL

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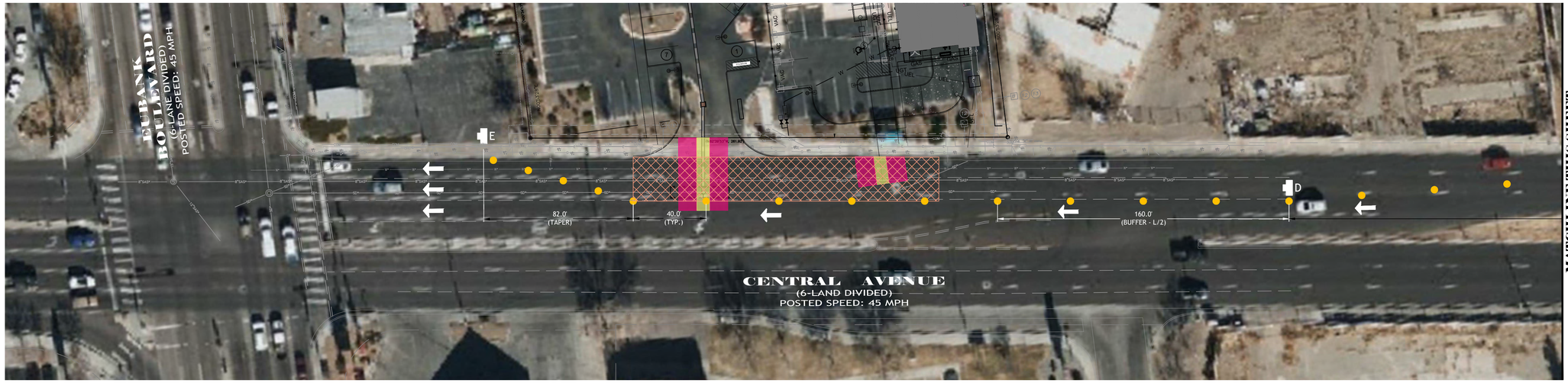

MATCHLINE THIS SHEET

MATCHLINE THIS SHEET

N

W — BEACON CIVIL ENGINEERING — E

S

80 40 20 0 40

SCALE : 1" = 40'

A	B	C	D	D	E
ROAD WORK AHEAD	RIGHT LANES CLOSED AHEAD		LANE CLOSED		END ROAD WORK
W20-1F 36" X 36"	W20-5 36" X 36"	W4-2 36" X 36"	G11-2 48" X 30"	W1-6 36" X 24"	G20-2 36" X 24"

PROJECT ADVANCED SIGNING SCHEME

NOTE: CONTRACTOR IS TO PLACE BEGIN/END PROJECT ADVANCE SIGNING SCHEME AT THE BEGIN AND END PROJECT LIMITS FOR THE DURATION OF THE PROJECT

LEGEND:

- WORK ZONE
- CHANNELIZING DEVICE
- TRAVEL DIRCETION
- PROPERTY BOUNDARY

TRAFFIC CONTROL GENERAL NOTES:

1. THE MAINTAINED REGULATORY SPEEDS FOR CENTRAL AVENUE IS 40 MPH.
2. PER NEW MEXICO DOT SPECIFICATIONS, SUSPENSIONS OF CONTRACTOR'S OPERATIONS - HOLIDAYS AN SPECIAL EVENTS, SPECIAL EVENT DAYS FOR THE PROJECT INCLUDE:
   - LABOR DAY
   - VETERANS DAY
   - THANKSGIVING DAY
3. WORKZONE CONSTRUCTION WILL BE ACCEPTABLE EXCEPT FOR DURING THE AM PEAK HOURS (7AM TO 9AM) AND PM PEAK HOURS (4PM TO 6PM).
4. ALL LANES MUST BE OPENED TO NORMAL TRAFFIC WITHIN 12 HOURS OF AN EVACUATION NOTICE FOR A HURRICANE OR ANY OTHER EMERGENCY EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVENT AS DIRECTED BY THE ENGINEER.
5. CONTRACTOR SHALL COORDINATE WITH LOCAL AREA REGIONAL TRANSIT TO MAINTAIN ACCESS TO BUST STOPS DURING CONSTRUCTION, AT THE CONTRACTOR'S EXPENSE. DURING THE HOURS OUTSIDE OF CONSTRUCTION, HART BUS STOPS SHALL REMAIN OPEN.
6. LANE LINES AND THRU MOVEMENT ARROW DESIGNATIONS SHOWN ON TTCP PLAN SHEETS ARE FOR LANE IDENTIFICATION AND DIRECTION OF TRAFFIC ONLY. TURN LANE ARROWS WILL BE INSTALLED FOR EACH PHASE (IF APPLICABLE).
7. WHEN A DRIVEWAY IS CLOSED, TYPE 3 BARRICADES TO BE USED TO CLOSE ACCESS.

PHASE I NOTES:

1. UTILITIES TO BE RELOCATED PRIOR TO CONTRACTOR BEGINNING WORK.
2. INSTALL ADVANCE WARNING SIGNS AND REMOVE CONFLICTING PAVEMENT MARKINGS AND SIGNS IN ACCORDANCE WITH APPROPRIATE INDICIES.
3. INSTALL CHANNELIZING DEVICES TO REGULATE TRAFFIC AND OPEN AND CLOSE DRIVEWAYS (IF APPLICABLE)
4. REMOVE CHANNELIZING DEVICES

DESIGN STANDARDS:

TEMPORARY TRAFFIC CONTROL PLAN USE THE FOLLOWING FDOT DESIGN STANDARDS FY 2021-22 FOLLOWING INDICIES: 102-600, 100-615, 102-628 & 102-660.

CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION PLANS R SPECIFICATIONS

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES (LOCATIONS AND ELEVATIONS) PRIOR TO STARTING CONSTRUCTION AND ALERT ENGINEER TO ANY DISCREPANCIES IMMEDIATELY.

811 CALL NM ONE-CALL SYSTEM SEVEN (7) DAYS PRIOR TO ANY EXCAVATION

BEACON CIVIL ENGINEERING
CONSULTANTS
LAND DEVELOPMENT ENGINEERS
8345 GUNN HIGHWAY
TAMPA, FL 33626

BENCH MARKS

TO REACH THE STATION FROM THE INTERSECTION OF BROADWAY BOULEVARD AND CENTRAL AVENUE, TRAVEL NORTH 0.46 MILES ON BROADWAY AVENUE TO LOMAS AVENUE. TURN LEFT ONTO LOMAS AND GO WEST 0.7 MILES TO 8TH STREET AND THE STATION IN THE MEDIAN ON THE WEST SIDE OF THE INTERSECTION. THE STATION MARK IS A CITY OF ALBUQUERQUE SURVEY CONTROL 3 1/4 INCH ALUMINUM DISC STAMPED "17-J14 1983" SET FLUSH WITH THE TOP OF THE CONCRETE.

SEAL

ATEF A. HANNA
NEW MEXICO
27436
PROFESSIONAL ENGINEER

ATEF A. HANNA, PE #27436

NO.	DATE	DESCRIPTION	BY
		AS-BUILT INFORMATION	
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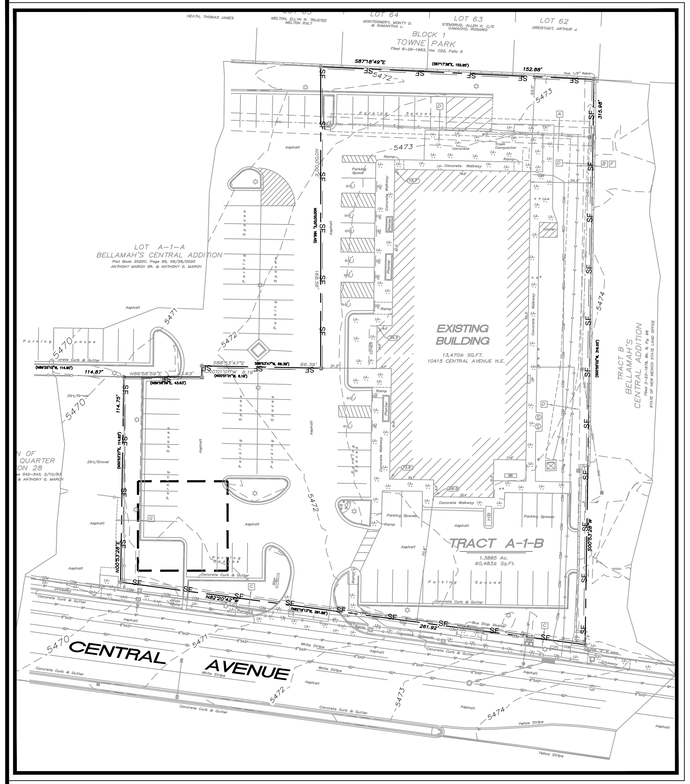
		WORK STAKED BY: DATE:	
		INSPECTOR'S ACCEPTANCE BY: DATE:	
		FIELD VERIFICATION BY: DATE:	
		DRAWINGS CORRECTED BY: DATE:	

DESIGNED BY: CB
DRAWN BY: CB
CHECKED BY: AAH
DATE 4/2022

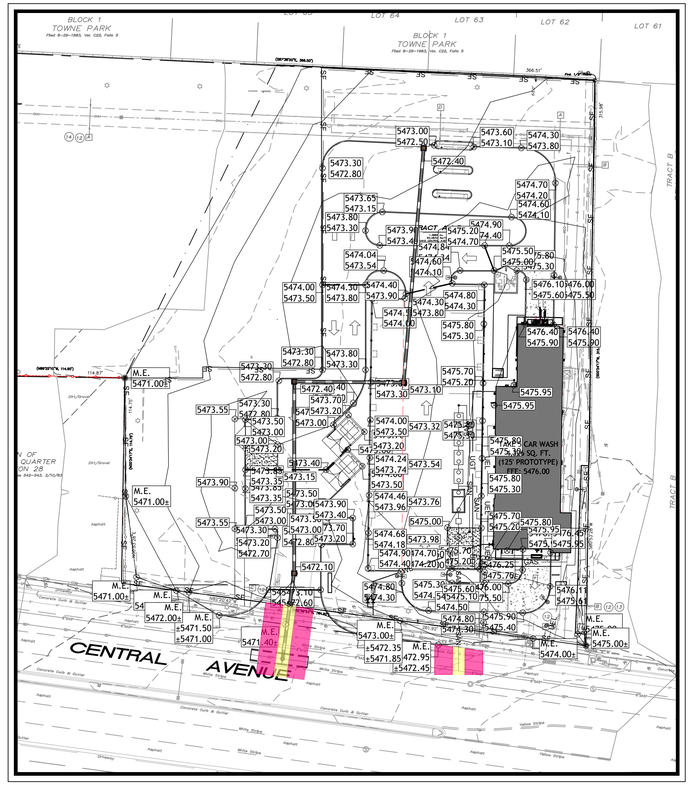
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

MAINTENANCE OF TRAFFIC PLAN

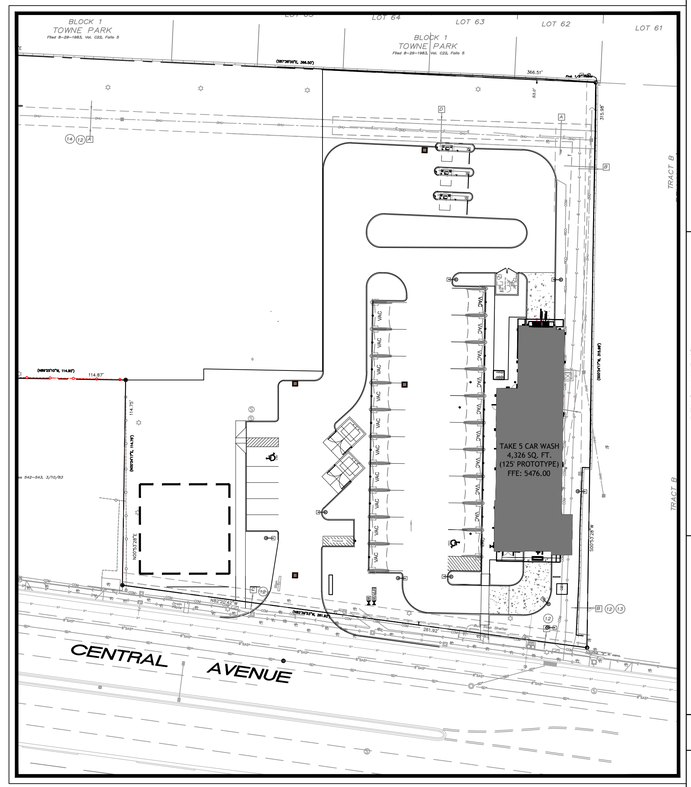
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	ZONE MAP NO. Z-99
		CITY PROJECT NO. 000000
		SHEET NO. C6.0



PHASE ONE



PHASE TWO



PHASE THREE

PHASE I LEGEND

- PROPOSED SAW-CUT LIMITS. SEE NEW PAVEMENT INTERFACE DETAIL SHEET C-2
- CONSTRUCTION DRIVE. SEE DETAIL SHEET C-2
- PROPOSED OPEN TRENCH
- SF — SILT FENCE. SEE DETAIL SHEET C-3.1
- STOCKPILE LOCATION
- EXISTING FLOW ARROW
- INLET PROTECTION
- TEMPORARY NATIVE SEED BLEND

PHASE II LEGEND

- PROPOSED OPEN TRENCH
- PROPOSED MILLING & RESURFACING
- SF — SILT FENCE. SEE DETAIL SHEET C-3.1
- PROPOSED FLOW ARROW
- INLET PROTECTION
- TEMPORARY NATIVE SEED BLEND
- X.XX — PROPOSED MAJOR CONTOUR
- X.XX — PROPOSED MINOR CONTOUR

PHASE III LEGEND

- PERMANENT NATIVE SEED BLEND

CULTURAL RESOURCES NOTE
NO CULTURAL RESOURCES HAVE BEEN IDENTIFIED ON THIS SITE.

NOTE: BLACK TONE INDICATES ITEMS TO BE REMOVED/DEMOLISHED. LIGHTER TONE INDICATES EXISTING CONDITION TO REMAIN.

AREA SUMMARY (ACRES)	
TOTAL PARCEL AREA	1.39
ON-SITE DISTURBED AREA	1.39
OFF-SITE DISTURBED AREA	0.00
TOTAL DISTURBED AREA	1.39
PROPOSED IMPERVIOUS AREA AT COMPLETION WITHIN PROPERTY AREA	0.52
PROPOSED PERVIOUS AREA AT COMPLETION WITHIN PROPERTY AREA	0.87

N
W — BEACON CIVIL ENGINEERING — E
S

80 40 20 0 40
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CITY OF ALBUQUERQUE
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ENGINEERING DIVISION

SWPPP

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	ZONE MAP NO. Z-99
		CITY PROJECT NO. 000000
		SHEET NO. C7.0

SWPPP STANDARD NOTES

1. SEDIMENT CONTROL PRACTICES MUST BE ESTABLISHED ON ALL DOWN GRADIENT PERIMETERS BEFORE ANY UPGRADIENT LAND DISTURBING ACTIVITIES BEGIN. THESE PRACTICES MUST REMAIN IN PLACE UNTIL FINAL STABILIZATION HAS BEEN ACHIEVED IN ACCORDANCE WITH SECTION C EROSION CONTROL REQUIREMENTS.

2. IF DOWN GRADIENT TREATMENT SYSTEM IS OVERLOADED ADDITIONAL UP GRADIENT SEDIMENT CONTROL PRACTICES MUST BE INSTALLED TO ELIMINATE OVERLOADING. THE SWPPP MUST BE AMENDED TO IDENTIFY THE ADDITIONAL PRACTICES.

3. ALL STORM DRAIN INLETS MUST BE PROTECTED BY APPROVED BMPS DURING CONSTRUCTION UNTIL ALL POTENTIAL SOURCES FOR DISCHARGE HAVE BEEN STABILIZED. THESE DEVICES MUST BE MAINTAINED UNTIL FINAL STABILIZATION IS ACHIEVED. INLET PROTECTION MAY BE REMOVED IF A SPECIFIC SAFETY CONCERN (STREET FLOODING/FREEZING) HAS BEEN IDENTIFIED.

4. TEMPORARY STOCKPILES MUST HAVE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS ON THE DOWN GRADIENT SIDE OF THE STOCKPILE AND SHALL NOT BE PLACED AT LEAST 25 FEET FROM ANY ROAD, WETLAND, PROTECTED WATER, DRAINAGE CHANNEL, OR STORM WATER INLETS. STOCKPILE LEFT FOR MORE THAN 14 DAYS MUST BE STABILIZED WITH MULCH, VEGETATION, TARPS OR OTHER APPROVED MEANS.

5. VEHICLE TRACKING OF SEDIMENT FROM PROJECT SHALL BE MINIMIZED BY APPROVED BMPS. THESE SHALL BE INSTALLED AND MAINTAINED AT THE CITY APPROVED ENTRANCES. INDIVIDUAL LOTS SHALL EACH BE REQUIRED TO INSTALL AND MAINTAINED ENTRANCES THROUGHOUT THE CONSTRUCTION BUILDING UNTIL A PAVED DRIVEWAY IS INSTALL.

6. SEDIMENT THAT HAS WASHED OR TRACKED FROM SITE BY MOTOR VEHICLES OR EQUIPMENT SHALL BE CLEANED FROM PAVED SURFACES THROUGHOUT THE DURATION OF CONSTRUCTION.

7. SILT FENCE OR OTHER APPROVED SEDIMENT CONTROL DEVICES MUST BE INSTALLED IN ALL AREAS AS SHOWN ON THE SWPPP.

8. SILT FENCE OR OTHER APPROVED SEDIMENT CONTROL DEVICES SHALL BE REQUIRED ALONG THE ENTIRE CURB LINE, EXCEPT FOR APPROVED OPENING WHERE CONSTRUCTION ENTRANCE WILL BE INSTALLED OR DRAINAGE FLOWS AWAY FROM CURB. THIS DEVICE MUST BE MAINTAINED UNTIL FINAL STABILIZATION IS ACHIEVED. DITCH CHECKS SHALL BE REQUIRED IN DITCH BOTTOMS. SPACING FOR THE CHECK MUST BE AS FOLLOWS: [HEIGHT IN FEET (OF THE SEDIMENT DEVICE USED)] X 100 / SLOPE GRADIENT

9. DUST CONTROL MEASURES, SUCH AS APPLICATION OF WATER MUST BE PERFORMED PERIODICALLY DUE TO WEATHER, CONSTRUCTION ACTIVITY, AND/OR AS DIRECTED BY THE CITY.

10. FLOWS FROM DIVERSION CHANNELS OR PIPES (TEMPORARY OR PERMANENT) MUST BE ROUTED TO SEDIMENTATION BASINS OR APPROPRIATE ENERGY DISSIPATERS TO PREVENT THE TRANSPORT OF SEDIMENT TO OUTFLOW OR LATERAL CONVEYORS AND TO PREVENT EROSION AND SEDIMENT BUILDUP WHEN RUNOFF FLOWS INTO THE CONVEYORS.

11. A CONCRETE WASHOUT SHALL BE INSTALLED ON PROJECTS THAT REQUIRE THE USE OF CONCRETE. ALL LIQUID AND SOLID WASTES GENERATED BY CONCRETE WASHOUT OPERATIONS MUST BE CONTAINED IN A LEAK–PROOF ONTAINMENT FACILITY OR IMPERMEABLE LINER. A SIGN MUST BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM OPERATORS TO UTILIZE THE PROPER FACILITIES.

12. ALL SEDIMENT CONTROL MEASURES SHALL BE USED AND MAINTAINED FOR THE DURATION OF THE PROJECT UNTIL FINAL STABILIZATION HAS BEEN ACHIEVED ACCORDANCE WITH SECTION C EROSION CONTROL REQUIREMENTS. IF CONSTRUCTION OPERATIONS OR NATURAL EVENTS DAMAGE OR INTERFERE WITH ANY EROSION CONTROL MEASURES, THEY MUST BE RESTORED TO SERVE THEIR INTENDED FUNCTION.

13. ADDITIONAL SEDIMENT CONTROL MEASURES SHALL BE ADDED AS NECESSARY TO EFFECTIVELY PROTECT THE NATURAL RESOURCES OF THE CITY. THE TEMPORARY AND PERMANENT EROSION CONTROL PLANS SHALL BE REVISED AS NEEDED BASED ON CURRENT SITE CONDITIONS AND TO COMPLY WITH ALL APPLICABLE REQUIREMENTS.

14. RESTRICT CLEARING AND GRADING WITHIN 20 FEET OF AN EXISTING WETLAND BOUNDARY TO PROVIDE FOR A PROTECTIVE BUFFER STRIP OF NATURAL VEGETATION.

CONSTRUCTION SCHEDULE

CONSTRUCTION SEQUENCE	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL
STARTING AND COMPLETION DATES		■					■					
INITIAL EROSION CONTROL BMPS INSTALLATION		■										
INTERMEDIATE EROSION CONTROL BMPS			■	■	■							
FINAL PHASE E&SC BMPS						■	■					
MAINTENACE OF E&SC PRACTICES		■	■	■	■	■	■					
DEMOLITION		■										
INSTALLATION / REMOVAL OF TEMPORARY SEDIMENT BASINS		■										
RETROFITTING OF DENTENTION POND (N/A)												
CLEARING AND GRUBBING		■										
GRADING		■	■									
STORM AND SANITARY SEWER INSTALLATION			■	■								
PAVING					■	■						
BUILDING CONSTRUCTION			■	■	■	■	■					
TEMPORARY GRASSING @ 14 DAY INTERVALS				■	■							
PERMANENT GRASSING @ 30 DAY INTERVALS						■	■					
REMOVAL OF TEMPORARY BMPS							■					
FINAL CLEAN–UP							■					

CONSULTANTS

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SWPPP NOTES

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