

CITY OF ALBUQUERQUE

Planning Department
David S. Campbell, Director



Timothy M. Keller, Mayor

April 9, 2018

Jake Bordenave
Bordenave Designs
PO Box 91194
Albuquerque, NM 87199

RE: **Homewood Suites - 5400 San Antonio Dr. NE**
Grading and Drainage Plan
Engineer's Stamp Date 3/28/2018 (C1.1 & C1.2) & 4/5/2018 (C1.3 & C1.45)
Hydrology File: E18D050

Dear Mr. Bordenave:

Based on the information provided in the submittal received on 4/6/2018 the above-referenced Grading and Drainage Plan is approved for Site Plan for Building Permit and Building Permit.

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

1. Please include copies of the approved plan, sheets C1.1 through C1.4, in the Site Plan for Building Permit prior to City Engineer's signature
2. Include a copy of the approved Site Plan for Building Permit in the construction plan sets for Building Permit.
3. Prior to WO approval, remove the note on the plan & profile sheet that says "pipe is undersized..."
4. The final Elevation Certificate must be submitted to Rudy Rael with the as-built floor elevation prior to Certificate of Occupancy.
5. An Engineer's Certification is required prior to Release of Financial Guarantees and Certificate of Occupancy.

If you have any questions, I can be contacted at 924-3986 or jhughes@cabq.gov.

Sincerely,

James D. Hughes P.E.
Principal Engineer, Planning Dept.
Development Review Services



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 10/2015)

Project Title: HOMERWOOD SUITES Building Permit #: _____ Hydrology File #: E180050

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

Legal Description: TRACT A-3-A

City Address: 5400 SAN ANTONIO DRIVE NE

Applicant: BORDENAVE DESIGNS Contact: JAKE

Address: PO Box 91194, ALB., NM 87199

Phone#: 505-823-1344 Fax#: 505-821-9105 E-mail: jake.bordenave@comcast.net

Other Contact: _____ Contact: _____

Address: _____

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

Check all that Apply:

DEPARTMENT:

- ☒ HYDROLOGY/ DRAINAGE
☐ TRAFFIC/ TRANSPORTATION
☐ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

- ☐ ENGINEER/ARCHITECT CERTIFICATION
☐ CONCEPTUAL G & D PLAN
☒ GRADING PLAN
☐ DRAINAGE MASTER PLAN
☐ DRAINAGE REPORT
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ TRAFFIC IMPACT STUDY (TIS)
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
☐ OTHER (SPECIFY) _____

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

PRE-DESIGN MEETING?

OTHER (SPECIFY) _____

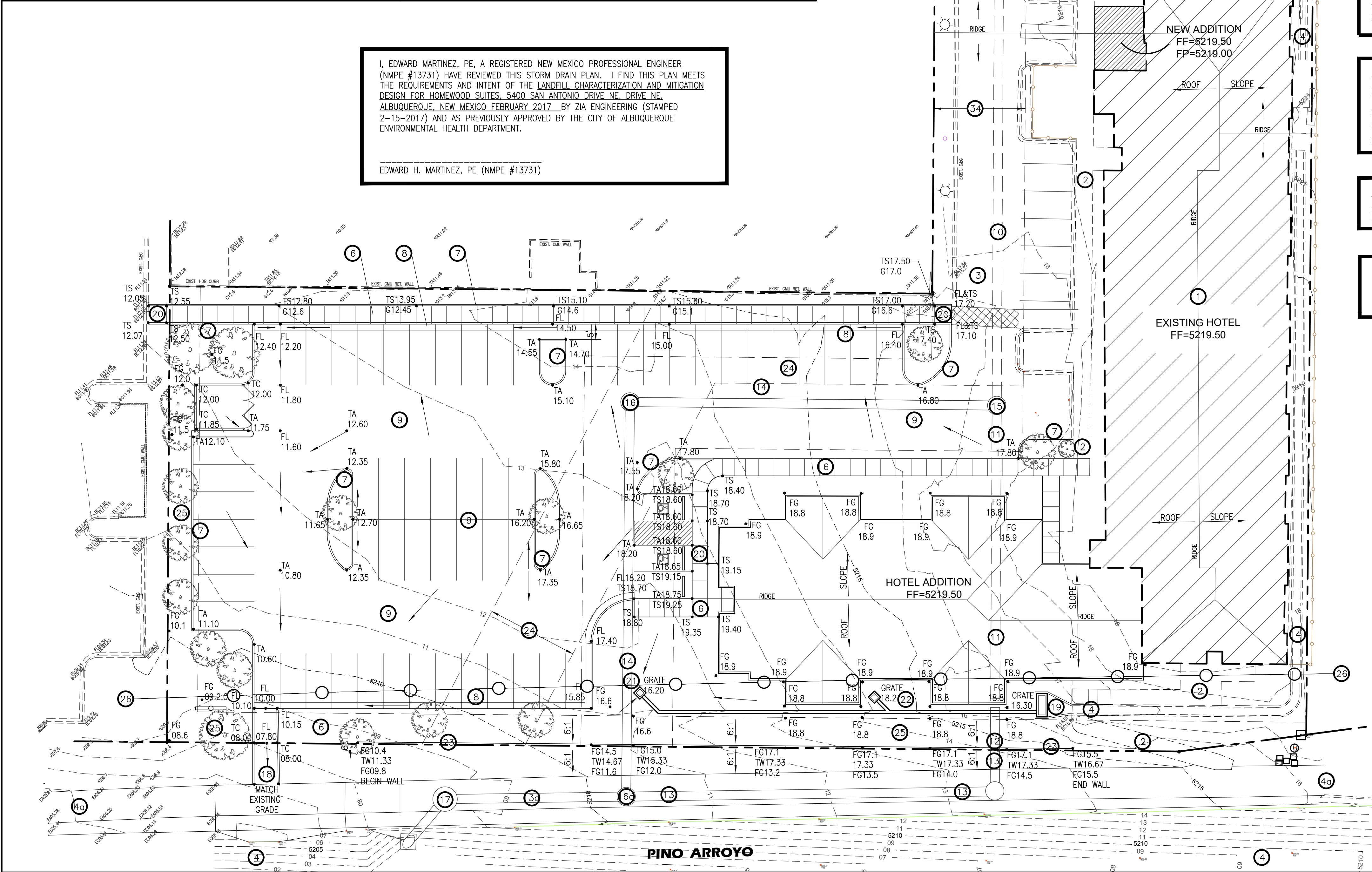
IS THIS A RESUBMITTAL?: ☒ Yes ☐ No

DATE SUBMITTED: 04/06/18 By: [Signature]

COA STAFF: _____ ELECTRONIC SUBMITTAL RECEIVED: _____

#	KEYED NOTES
1.	EXISTING BUILDING TO REMAIN.
2.	EXISTING PRIVATE CONCRETE SIDEWALK TO REMAIN.
3.	EXISTING ASPHALT DRIVEWAY AND PARKING TO REMAIN.
4.	EXISTING PRIVATE CONCRETE CHANNEL AND CONCRETE WALKWAY.
4a.	EXISTING PUBLIC CONCRETE CHANNEL & ASPHALT BIKE TRAIL (PINO ARROYO).
5.	PROPOSED BUILDING. SEE ARCHITECTURAL FOR DETAILS.
6.	PROPOSED CONCRETE TURNDOWN SIDEWALK. SEE SHEET C1.2 FOR DETAILS.
7.	PROPOSED CONCRETE HEADER CURB. SEE SHEET C1.2 FOR DETAILS.
8.	PROPOSED CONCRETE CURB AND GUTTER. SEE SHEET C1.2 FOR DETAILS.
9.	PROPOSED HEAVY DUTY ASPHALT PAVEMENT. SEE SHEET C1.2 FOR DETAILS.
10.	EXISTING 36" PUBLIC STORM DRAIN TO REMAIN IN PUBLIC EASEMENT ON PRIVATE PROPERTY.
11.	EXISTING 36" PUBLIC STORM DRAIN TO BE REMOVED.
12.	EXISTING 36" PUBLIC STORM DRAIN TO BECOME PRIVATE STORM DRAIN ON VACATED PUBLIC EASEMENT.
13.	EXISTING 36" PUBLIC STORM DRAIN AND 6' MANHOLE (RIM 12.85, INV. 02.62) A PRIVATE STORM DRAIN ON PUBLIC PROPERTY.
13a.	EXISTING 36" PUBLIC STORM DRAIN TO REMAIN.
*14.	PROPOSED 36" PUBLIC STORM DRAIN IN 30' PUBLIC EASEMENT. EASEMENT DOCUMENT FILED IN THE PUBLIC RECORDS AS DOCUMENT _____, FILED _____.
*15.	PROPOSED 6' TYPE 'E' MANHOLE PER COA STD. DWG. 2209.
*16.	PROPOSED 6' TYPE 'E' MANHOLE PER COA STD. DWG. 2209.
*16a.	PROPOSED 6' TYPE 'E' MANHOLE PER COA STD. DWG. 2209.
*17.	EXISTING MANHOLE TO REMAIN. INLET INV. 02.01, RIM 08.85.
*18.	PROPOSED CONCRETE CHANNEL TO EXISTING CONCRETE SIDE INLET TO PINO ARROYO CHANNEL PER COA STD. DWG 2260.
19.	PROPOSED PRIVATE CONCRETE CHANNEL TO BE EXTENDED, PRIVATE DBL. 'D' CATCH BASIN AND 12" OUTLET TO BE CONNECTED TO EXISTING 36" STORM DRAIN. SEE SHEET C1.2 FOR DETAILS.
20.	PROPOSED 12:1 CONCRETE SIDEWALK RAMP w/ 24" TRUNCATED DOME MAT AT BASE.
21.	10"x10" CONCRETE OR POLY CARBONATE CATCH BASIN w/ 6" PVC OR SMOOTH WALL HDPE OUTLET PIPE. OUTLET INV. 14.95. SEE SHEET C1.2 FOR DETAILS.
22.	10"x10" CONCRETE OR POLYCARBONATE CATCH BASIN w/ 6" PVC OR SMOOTH WALL HDPE OUTLET PIPE. OUTLET INV. 14.45. SEE SHEET C1.2 FOR DETAILS.
23.	MASONRY RETAINING WALL. SEE STRUCTURAL PLANS FOR DETAILS.
24.	EXISTING 30' WIDE PUBLIC STORM DRAIN EASEMENT TO BE VACATED AT A LATER DATE.
25.	EXISTING 10' WIDE PUBLIC UTILITY EASEMENT.
26.	FLOOD PLAIN BOUNDARY. FINISHED FLOOR ELEVATION CERTIFICATE FOR BUILDING IN THE FLOOD PLAIN IS REQUIRED.

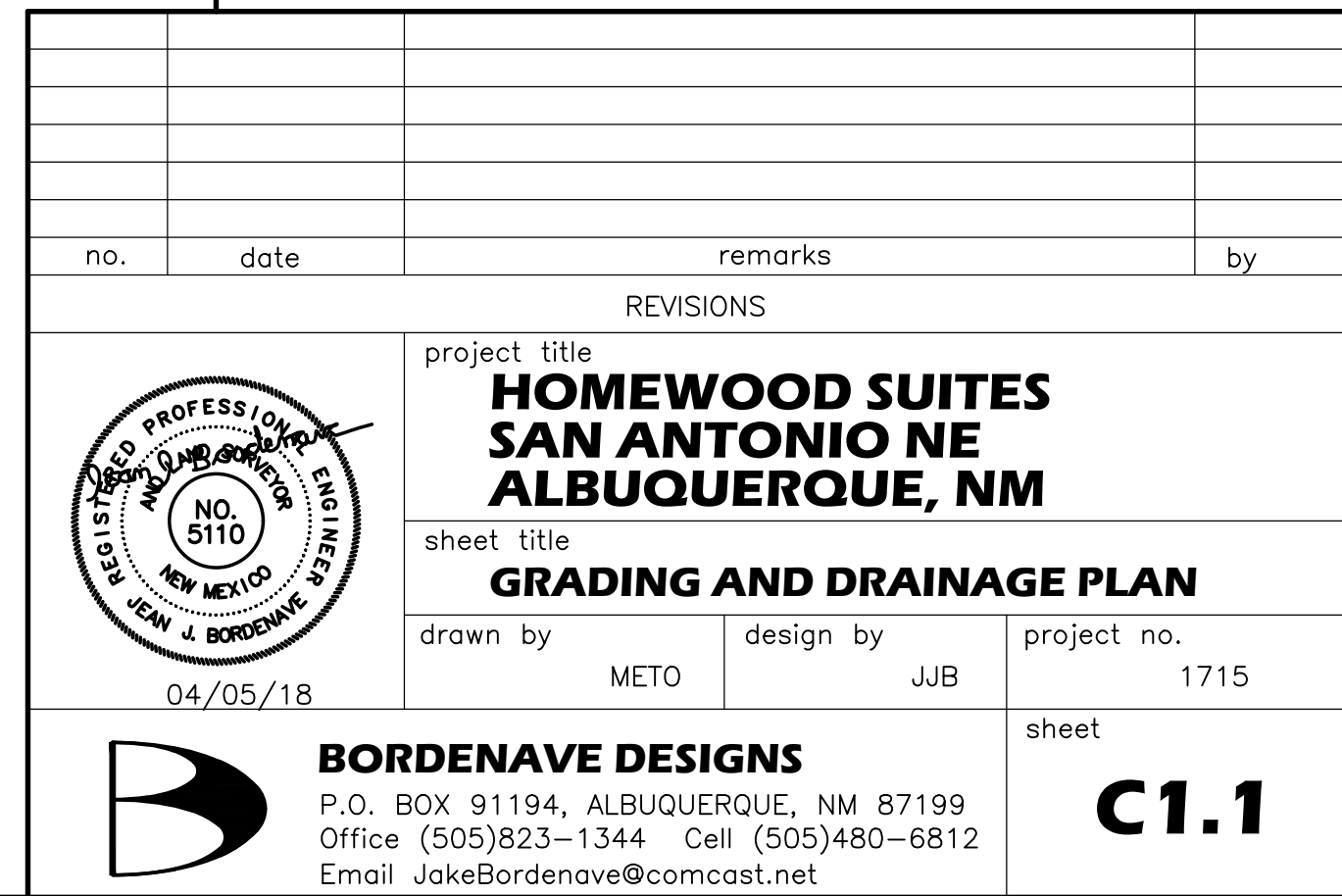
EDWARD H. MARTINEZ, PE (NMPE #13731)



	<p>LEGAL DESCRIPTION</p> <p>TRACT A-3-A, J GROUP ADDITION</p>
	<p>PERMANENT BENCHMARK</p> <p>ACS STATION I-25-14, ELEVATION 5130.37 NAVD1988)</p>
	<p>DRAINAGE/SITE NOTES</p> <p>1. A PORTION OF THE SITE WAS PREVIOUSLY DEVELOPED AS AN HOTEL. THAT USE WILL CONTINUE AND THE FACILITY WILL BE EXPANDED INTO AN EXISTING PARKING AREA AND EXISTING UNDEVELOPED LAND.</p> <p>2. THE NEWLY DEVELOPED AS WELL AS THE EXISTING RUNOFF WILL BE DIRECT DISCHARGED TO THE PINO ARROYO VIA IMPERMEABLE SURFACES. NO POND IS TO BE CONSTRUCTED ON THIS SITE DUE TO THE EXISTING WASTE LANDFILL ON THE SITE.</p> <p>3. EXISTING AND PROPOSED FLOW RATES WILL NOT BE TABULATED AND COMPARED. INCOMING FLOW RATES (SHOWN ON THE AS-BUILT PLANS) IN THE STORM DRAIN WILL BE USED TO ESTABLISH GRADES AND PIPE SIZES OF THE NEW PORTION OF THE STORM DRAIN. DESIGN FLOW RATE, VELOCITY, WATER SURFACE AND HGL WILL BE SHOWN ON THE CITY APPROVED WORK ORDER PLANS.</p> <p>4. THE BULK OF THE SITE IS LOCATED IN AN AREA DESIGNATED 'ZONE X' PER FEMA FIRM MAP NO. 137H, DATED AUGUST, 2012. THE SOUTHERLY PORTION OF THE SITE IS LOCATED IN AN AREA DESIGNATED AO 3 FEET. CONSTRUCTION IN THAT AREA WILL DISPLACE 8,560 CUBIC FEET OF WATER.</p> <p>5. EXISTING TOPOGRAPHY FOR THE SITE WAS OBTAINED BY CONSTRUCTION SURVEY TECHNOLOGIES, INC. IN JUNE, 2015 AND HARRIS SURVEYING IN OCTOBER, 2017.</p>

NOTE:
ITEM NO. 13 IS AN EXISTING PUBLIC STORM DRAIN. PER AN AGREEMENT AND COVENANT BETWEEN THE CITY OF ALBUQUERQUE AND THE OWNER OF THE ADJOINING PROPERTY THE STORM DRAIN EAST OF MANHOLE (ITEM NO. 16a) IS NOW A PRIVATE FACILITY ON PUBLIC PROPERTY PER A DOCUMENT FILED IN THE PUBLIC RECORDS AS DOCUMENT _____, FILED _____.

NOTE:
THE EXISTING PUBLIC STORM DRAIN THROUGH THIS SITE MUST REMAIN FUNCTIONAL AT ALL TIMES. TEMPORARY DIVERSION DITCHES WILL BE CONSTRUCTED AND MAINTAINED WHEN THE STORM DRAIN IS NOT IN SERVICE.



[illegible]

SILT FENCE

The diagram illustrates the construction of a silt fence. A vertical fence post, labeled '2"x2" WOOD OR STEEL FENCE POST', is driven into the ground. The post is secured by a 'SUPPORTING FENCE' at the top, which is 6 inches high and 2 inches wide. The fence post is 24 inches high. The silt fence fabric is placed 6 inches minimum on the side of the trench and 4 inches minimum across the trench bottom. The fabric is labeled 'SILT FENCE FABRIC. PLACE 6 IN. MIN. ON SIDE OF TRENCH AND 4 IN. MIN. ACROSS TRENCH BOTTOM.' The flow of water is indicated by an arrow labeled 'FLOW'. The soil surface is shown on the left, and the trench is excavated to a depth of 30 inches minimum. The trench is labeled 'EXCAVATE 6x6 MIN. DIM. FABRIC ANCHORAGE TRENCH. INSTALL FABRIC, BACKFILL AND TAMP TRENCH.'

NOTES:

1. POST SPACING SHALL BE NO MORE THAN 10 FT. WITH A SUPPORTING FENCE AND NO MORE THAN 4 FEET WITHOUT A SUPPORTING FENCE.
2. SILT FENCE USED AS A SILT DAM IN CONCENTRATED FLOWS SHALL HAVE A SUPPORTING FENCE AND A POST SPACING OF NO MORE THAN 4 FT. SILT DAMS SHALL BE CLEANED ON A REGULAR BASIS.
3. POSTS FOR 4 FT. MAXIMUM POST SPACING SHALL BE 2 IN. SQUARE, OR HEAVIER, WOOD POSTS OR STANDARD I OR U SECTION POST WEIGHING NO LESS THAN 1.0 LB./FT. POSTS FOR 10 FT. MAXIMUM POST SPACING SHALL BE 4 IN. SQUARE, OR HEAVIER, WOOD POSTS OR STEEL POSTS AS SPECIFIED ABOVE.
4. SUPPORTING FENCE SHALL BE WIRE MESH (14 GA. MIN. WITH 2" MAX. OPENING SIZE).
5. SUPPORTING FENCE SHALL BE FASTENED SECURELY TO POSTS WITH STAPLES OR WIRE TIES. FILTER FABRIC SHALL BE FASTENED SECURELY TO SUPPORTING FENCE WITH WIRE TIES SPACED AT 24 IN. MAX. ALONG THE TOP AND MID-SECTION. WHEN A SUPPORTING FENCE IS NOT USED, FILTER FABRIC SHALL BE SECURELY FASTENED TO POSTS WITH STAPLES OR WIRE TIES.

GENERAL NOTES

1. WHEN DOING WORK IN THE CITY ROW, PREVENT DIRT FROM GETTING INTO THE STREET. IF DIRT DOES IS IN THE STREET, STREET SHOULD BE SWEEPED AT THE END OF EACH DAY OR DURING THE DAY IF RAIN IS IMMINENT OR IF THE CONTRACTOR INTRODUCES WATER INTO THE STREET.
2. WHEN CUTTING THE STREET FOR UTILITIES THE EXCAVATED SOIL SHOULD BE PLACED ON THE UPHILL SIDE OF THE STREET CUT OR A WATTLE/FILTER SOCK PLACED AT THE TOE ON THE DOWNHILL SIDE OF THE CUT. THE CONTRACTOR SHALL SWEEP THE AREA AFTER THE CUT IS PAVED.
3. ON STREETS WHERE THE LONGITUDINAL SLOPE IS STEEPER THAN 2.5%, WATTLES OR A J-HOOK SILT FENCE SHALL BE PLACED IN THE FRONT YARD SWALE.
4. WHEN INSTALLING BURIED UTILITIES BEHIND THE CURB THE EXCAVATED SOIL SHALL NOT BE PLACED IN THE STREET.
5. A SEDIMENT POND SHALL BE BUILT AT THE DOWNSTREAM END OF LONG STREETS WITH A LARGE WATTLE OR NUMEROUS SMALLER WATTLES PLACED AT THE POND SPILLWAY.
6. INSPECTION OF EROSION AND SEDIMENT CONTROL AND OTHER PROTECTIVE MEASURES ARE REQUIRED ONCE EVERY 14 DAYS AT A MINIMUM. THIS INSPECTION SHALL ALSO BE PERFORMED AFTER A PRECIPITATION EVENT OF $\frac{1}{4}$ INCH OR GREATER. THESE INSPECTIONS SHALL BE CONTINUED UNTIL THE SITE IS CONSIDERED STABILIZED BY THE CITY. INSPECTION REPORTS ARE TO BE KEPT BY THE PERSON OR ENTITY AUTHORIZED TO DIRECT CONSTRUCTION ACTIVITIES ON THE SITE.

KEYED NOTES

1. INSTALL NPDES SIGN. SIGN SHALL BE VISIBLE FROM THE SIDEWALK.
2. INSTALL SILT FENCE PER DETAIL THIS SHEET.
3. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE PER DETAIL THIS SHEET.
4. INSTALL WASHOUT AREA, PORTABLE TOILET AREA.
5. EQUIPMENT STAGING AND MATERIAL STORAGE AREA.
6. NO WATER HARVESTING POND WILL BE CONSTRUCTED ON THIS SITE.

-
- REMOVED BY THE
END OF EACH DAY.
- I-25 FRONTAGE ROAD
- N
N.T.S.
- 420' FROM FRONTAGE ROAD TO ACCESS ROAD
STD. C&G
- 6' CONSTRUCTION YARD FENCE
WITH ATTACHED SILT FENCE
- ACCESS ROAD & BRIDGE
- EXISTING CURB
- 6' CONSTRUCTION YARD FENCE
WITH ATTACHED SILT FENCE
- FOREST HILLS DR. NE
- OVERALL CONSTRUCTION SITE

CONSTRUCTION SITE

SAN ANTONIO DR. NE

PINO ARROYO

STORM DRAIN

STORM DRAIN

STORM DRAIN

TEMPORARY BRIDGE

6' CONSTRUCTION YARD FENCE w/ GATE WITH ATTACHED SILT FENCE

EARTH STOCKPILE

6' CONSTRUCTION YARD FENCE WITH ATTACHED SILT FENCE

3 OPENING (INSTALL GATE)

CONSTRUCTION YARD FENCE w/ GATE ATTACHED SILT FENCE

STD. C&G

GENERAL EROSION CONTROL NOTES

SEE SWPPP PLAN FOR CONTRACTOR RESPONSIBLE FOR EACH CONTROL MEASURE LISTED AND BMP DETAILS.

1. ROUGH GRADING PHASE
INSTALL SILT FENCE, STABILIZED CONSTRUCTION SITE ENTRANCE, AND SEDIMENT PONDS WHERE PRACTICAL. INSTALL EROSION CONTROL MEASURES BEFORE ANY GRADING WHERE POSSIBLE. IF NOT POSSIBLE MEASURES SHALL BE INSTALLED CONCURRENT WITH MAJOR GRADING. APPLY WATER TO DISTURBED AREAS FOR SOIL STABILIZATION AS NECESSARY.

2. BUILDING CONSTRUCTION & UTILITY INSTALLATION PHASE
MAINTAIN SOIL EROSION MEASURES DURING ENTIRE PHASE. APPLY WATER TO DISTURBED AREAS FOR SOIL STABILIZATION AS NECESSARY.

3. FINAL STABILIZATION PHASE
INSTALL FINAL STRUCTURAL AND STABILIZATION CONTROLS PER APPROVED SITE WORK AND LANDSCAPING PLANS (REFERENCED BY SWPPP).

SITE SPECIFIC CONTROL NOTES

DURING CONSTRUCTION

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE REQUIRED BETWEEN PAVED/UNPAVED ROADWAYS.
2. INSTALL SILT FENCE AT INITIAL GRADING FOR TEMPORARY EROSION CONTROL. SILT FENCE MAY BE ATTACHED TO CONSTRUCTION SECURITY FENCING FOR ADDITIONAL STABILITY WHERE NECESSARY.
3. DISTURBED EARTH SURFACES SHALL BE WATERED AS NECESSARY FOR TEMPORARY STABILIZATION AND DUST CONTROL.
4. MATERIAL'S STORAGE AND EQUIPMENT STAGING AREAS MAY BE RELOCATED BASED ON CONTRACTOR PREFERENCE AND CHANGING CONDITIONS ON THE JOB SITE.
5. LOCATIONS OF TRASH, PORTA-LETS AND CONCRETE WASH-OUT PITS TO BE EXIST LINED ON THIS DRAWING AND A PROTECTED COPY OF SAME SHALL BE AFFIXED TO THE SITE SIGN BOARD CONTAINING SWPPP INFORMATION.
6. THERE IS NO DIRECT DISCHARGE FOR THIS SITE TO WATERS OF THE U.S. OR LISTED WETLANDS.
7. SOILS ARE BEING HAULED TO OR BORROWED FROM AN OFFSITE LOCATION.

AFTER CONSTRUCTION

1. REFER TO APPROVED CONSTRUCTION DRAWINGS FOR FINAL STRUCTURAL CONTROLS INCLUDING SIDEWALKS, DRIVEWAYS, PARKING AREAS, RUNDOWNS, DRAINAGEWAYS AND PONDS.
1. REFER TO APPROVED LANDSCAPING DRAWINGS FOR FINAL STABILIZATION OF PVIOUSLY DISTURBED AREAS.

STABILIZED CONSTRUCTION ENTRANCE

The drawing consists of two parts: a Plan view and a Profile view.

PLAN View: Shows a rectangular structure with a triangular extension on the right. The total width is 40' MIN. The triangular extension has a width of 10' MIN. at its base. The height of the structure is 20' MIN. The structure is filled with aggregate. The label "PLAN" is centered below the structure.

PROFILE View: Shows the cross-section of the structure. The structure is 5' MIN. high. The slope is 5:1. The top of the structure is a 5' wide berm. The structure is built on existing ground, and the site grade is indicated. The top of the berm shall be at least 6" above adjacent asphalt. The structure is built on existing asphalt and curb.

Text Instructions:

- 6" MINIMUM THICKNESS OVER ENTIRE STRUCTURE. 3"-6" SIZED AGGREGATE. DO NOT USE CRUSHED AGGREGATE.
- INSTALL GEOTEXTILE UNDER ALL AGGREGATE (CLASS 'C' OR BETTER).

Labels:

- CONSTRUCTION SITE
- EXISTING PAVEMENT
- EXISTING GROUND
- SITE GRADE
- 5:1 SLOPE
- BERM 5'
- EXISTING ASPHALT & CURB
- TOP OF BERM SHALL BE AT LEAST 6" ABOVE ADJACENT ASPHALT.
- PROFILE

VICINITY MAP NO. E-18

The map displays a proposed **NORTHSIDE SITE** (indicated by a thick black border) located near the intersection of **L-25** and **I-25**. The site is situated between **SAN ANTONIO** and **ACADEMY** streets. Surrounding areas include **SU-1** (Single Unit, Single Detached) and **C-2** (Community Center) zones. Other labeled streets include **HEART CENTER**, **ACADEMY**, **ACRES**, and **UNIT 61**. The map also shows various other streets and landmarks, such as **FORESTHILLS**, **ACADEMY**, **ACRES**, and **UNIT 61**.

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXECUTING ALL APPLICABLE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS. THOSE REQUIREMENTS SHALL INCLUDE, BUT NOT BE LIMITED TO, OBTAINING AN NPDES PERMIT PRIOR TO ANY CONSTRUCTION, FILING THE NOTICE OF INTENT (NOI) AND THE NOTICE OF TERMINATION (NOT) APPLICATIONS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE IMPLEMENTATION AND INSPECTION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INCLUDING THE FILING OF THE INSPECTION REPORTS.
2. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED SWPPP ON-SITE AT ALL TIMES.
3. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL DUST AND EROSION CONTROL REGULATIONS. THE CONTRACTOR PREPARE APPLICATIONS FOR AND OBTAIN ANY NECESSARY DUST OR EROSION CONTROL PERMITS FROM THE APPLICABLE REGULATORY AGENCIES.
4. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS CONCERNING SURFACE AND SUBSURFACE WATER. CONTACT WITH SURFACE AND SUBSURFACE WATER BY CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL BE MINIMIZED. EQUIPMENT MAINTENANCE AND REFUELING OPERATIONS SHALL BE PERFORMED IN AN ENVIRONMENTALLY SAFE MANNER IN COMPLIANCE WITH GOVERNMENT REGULATIONS.
5. WHERE PRIVATE STORM DRAIN INLETS ARE SUSCEPTIBLE TO INFLOW OF SILT OR DEBRIS FROM, OR DUE TO, CONSTRUCTION ACTIVITIES, PROTECTION FROM SAIL INFLOW SHALL BE PROVIDED UTILIZING BEST MANAGEMENT PRACTICES (BMPs) IDENTIFIED IN THE APPROVED SWPPP.

NO OFFSITE STORM DRAIN INLETS SHALL BE BLOCKED. ONLY ONSITE/PROPOSED STORM DRAIN INLETS CAN BE BLOCKED DURING CONSTRUCTION.

6. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE IT SHALL BE REMOVED FROM THE ADJACENT PROPERTY OR RIGHT-OF-WAY AT THE TIME OF OCCURRENCE. IN ADDITION, THE CONTRACTOR SHALL MAINTAIN A REGIMEN OF STREET SWEEPING AND GENERAL CLEAN-UP MEASURES.
7. ANY AREAS DISTURBED BY CONSTRUCTION AND NOT TO BE COVERED BY DESIGNED LANDSCAPING OR IMPERVIOUS SURFACES SHALL BE REVEGETATED WITH NATIVE GRASS SEEDING. UNLESS INDICATED OTHERWISE ON THESE PLANS OR ON THE LANDSCAPING PLAN, NATIVE GRASS SEEDING SHALL BE CLASS "A SEEDING PER SECTION 1012 OF THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, APWA NM CHAPTER, LATEST EDITION.

WHEN CONSTRUCTION ACTIVITIES CEASE AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME WITHIN 14 DAYS, SURFACE STABILIZATION MEASURES, AS DEFINED ON THE SWPPP, MUST BE INITIATED.

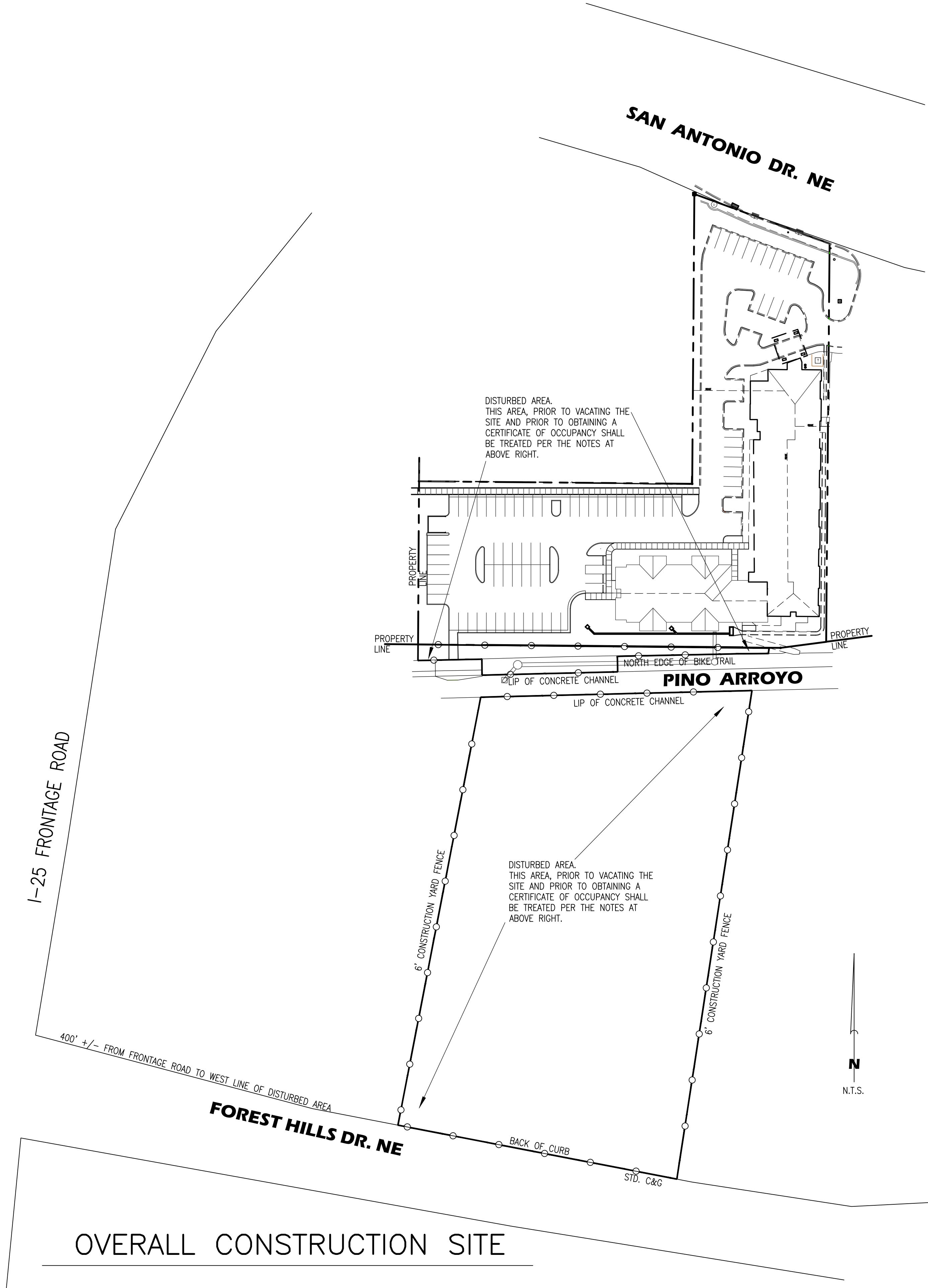
8. ALL WASTE PRODUCTS FROM THE CONSTRUCTION SITE, INCLUDING, BUT NOT LIMITED TO, ITEMS RESULTING FROM DEMOLITION, CONSTRUCTION WASTE, CONSTRUCTION EQUIPMENT WASTE PRODUCTS (OIL, GAS, DIESEL, TIRES, ETC.), GARBAGE, DEBRIS FROM GRUBBING AND EXCESS CUT MATERIAL SHALL BE APPROPRIATELY DISPOSED OF OFF-SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE PROPER PERMITS TO HAUL AND DISPOSE OF WASTE PRODUCTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WASTE DISPOSAL SITE IS PROPERLY PERMITTED PER LOCAL, STATE AND FEDERAL REGULATIONS TO ACCEPT THE WASTE BEING DISPOSED OF.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPORTING AND CLEAN-UP OF SPILLS OF HAZARDOUS MATERIALS ASSOCIATED WITH THE CONSTRUCTION SITE. HAZARDOUS MATERIALS ARE THOSE WHICH MAY BE A THREAT TO THE ENVIRONMENT, INCLUDING, BUT NOT LIMITED TO, GASOLINE, DIESEL FUEL, MOTOR OIL, SOLVENTS, CHEMICALS AND PAINTS. THE CONTRACTOR SHALL REPORT THE DISCOVERY OF PAST OR PRESENT SPILLS TO THE NEW MEXICO ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE TEAM AT 505-827-9329.

BMP LEGEND			
	SILT FENCE		
	STABILIZED CONSTRUCTION ENTRANCE		
	CATCH BASIN PROTECTION		
no.			
date			
remarks			
by			
REVISIONS			
	project title		
	HOMESTEAD SUITES SAN ANTONIO NE ALBUQUERQUE, NM		
	sheet title		
	EROSION & SEDIMENT CONTROL		
drawn by	design by	project no.	
METO	JJB	1715	
04/05/18			
		sheet C1.3	
BORDENAVE DESIGNS P.O. BOX 91194, ALBUQUERQUE, NM 87199 Office (505)823-1344 Cell (505)480-6812 Email JakeBordenave@comcast.net			

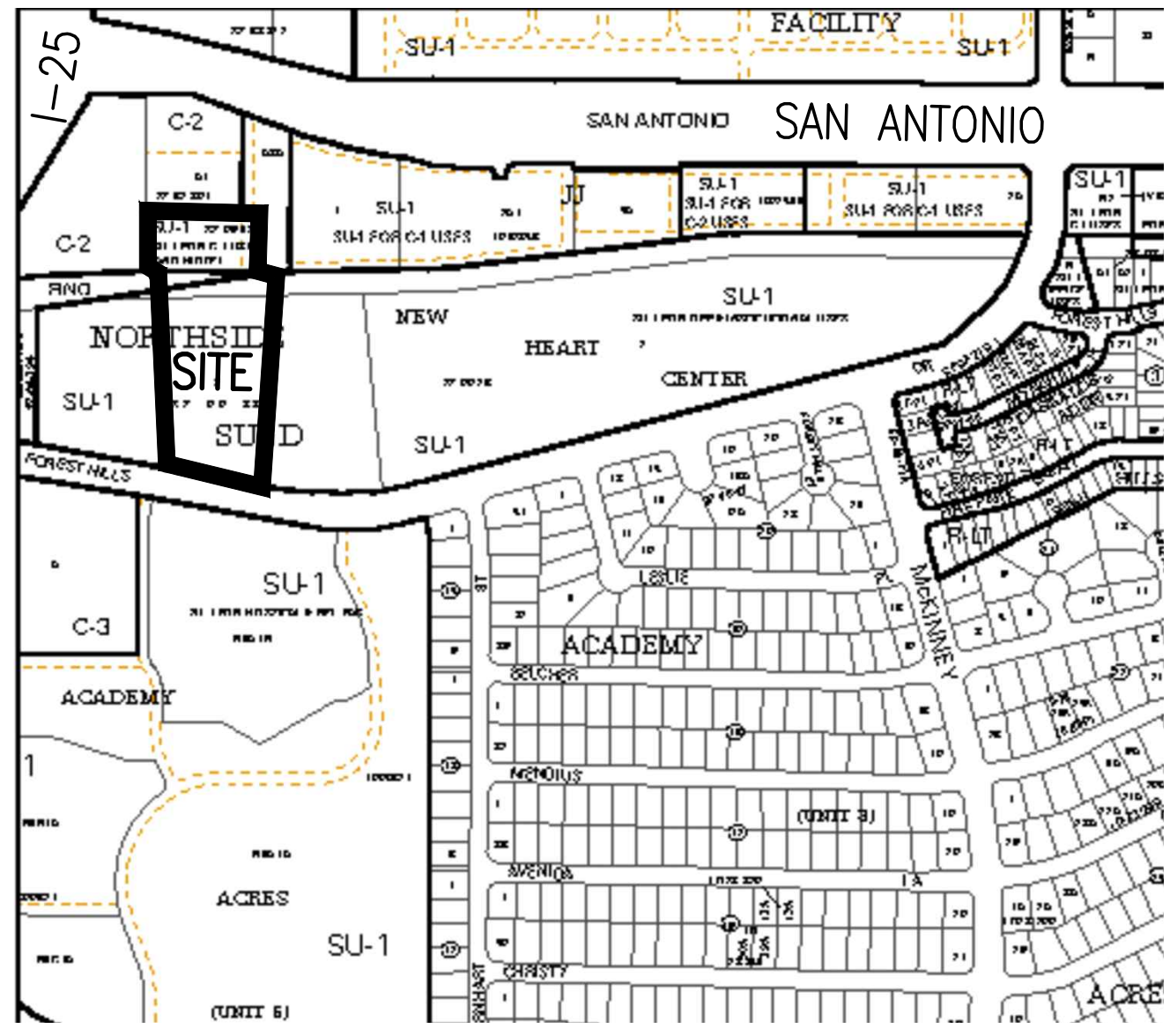
DISTURBED SOIL AREAS

TREATMENT NOTES

1. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL DUST AND EROSION CONTROL REGULATIONS. THE CONTRACTOR SHALL PREPARE APPLICATIONS FOR AND OBTAIN ANY NECESSARY DUST OR EROSION CONTROL PERMITS FROM THE APPLICABLE REGULATORY AGENCIES.
2. ALL WASTE PRODUCTS FROM THE CONSTRUCTION SITE, INCLUDING, BUT NOT LIMITED TO, ITEMS RESULTING FROM DEMOLITION, CONSTRUCTION WASTE, CONSTRUCTION EQUIPMENT WASTE PRODUCTS (OIL, GAS, DIESEL, TIRES, ETC.), GARBAGE, DEBRIS FROM GRUBBING AND EXCESS CUT MATERIAL SHALL BE APPROPRIATELY DISPOSED OF OFF-SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE PROPER PERMITS TO HAUL AND DISPOSE OF WASTE PRODUCTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WASTE DISPOSAL SITE IS PROPERLY PERMITTED PER LOCAL, STATE AND FEDERAL REGULATIONS TO ACCEPT THE WASTE BEING DISPOSED OF.
3. ANY AREAS DISTURBED BY CONSTRUCTION AND NOT TO BE COVERED BY DESIGNED LANDSCAPING OR IMPERVIOUS SURFACES SHALL BE REVEGETATED WITH NATIVE GRASS SEEDING. UNLESS INDICATED OTHERWISE ON THESE PLANS OR ON THE LANDSCAPING PLAN, NATIVE GRASS SEEDING SHALL BE PER SECTION 1012 OF THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, APWA NM CHAPTER, LATEST EDITION.



VICINITY MAP NO. E-18



no.		date		remarks		by	
REVISIONS							
project title		HOMESTEAD SUITES SAN ANTONIO NE ALBUQUERQUE, NM					
sheet title		DISTURBED SOIL TREATMENT AREAS					
drawn by		design by		project no.		sheet	
METO		JUB		1715		C1.4	
BORDENAVE DESIGNS		P.O. BOX 91194, ALBUQUERQUE, NM 87199 Office (505)823-1344 Cell (505)480-6812 Email JakeBordenave@comcast.net					

EXISTING STORM DRAIN SYSTEM

The existing system drains a group of catch basins on the north and south sides of San Antonio Drive due north of the HomeSuites Hotel. The existing system was constructed in 1989 and is composed of a 36” RCP and several manholes. The outlet of the storm drain is to the Pino Arroyo near the southwest corner of the Hotel site. The storm drain pierces a high area located between the San Antonio Dr. and the Pino Arroyo. It crosses an existing waste land fill that has been closed for a number of years. The land fill is approximately 35 deep.

The existing storm drain is a public facility located on the hotel site in a public easement.

PROPOSED STORM DRAIN SYSTEM

The proposed system will also be a 36” RCP with several manholes. The new system will be in a Z configuration and have one more manhole that the existing system which is in an L configuration. The length of the two systems are essentially the same. The new system departs from the existing system on the long leg of the L and returns to the existing system on the short leg of the L.

The hydraulics of the two systems are essentially identical as they use the same type of conduit, travel the same distance and have the same drop in elevation. The only difference being the new system has one additional manhole with it’s attendant losses albeit the losses are quite small due to the relatively flat grades and low velocities.

The existing waste material in the area under the storm drain is being removed full depth and backfilled with clean, compacted earth. Waste material is being hauled to an approved wasted disposal site and the backfill is being inspected and tested as the site is returned to grade.

STORM DRAIN CALCULATIONS

Due to the flat grade of the pipe the conduit velocity is small and resulting head losses in the manholes is low. Therefore the hydraulics will be analyzed by HY8 using the tailwater in each section as the headwater in the preceding section. The result will be a conservative estimate of the HGL.

ARROYO TO MANHOLE 1

Table 2 - Culvert Summary Table: Culvert 1

Total Discharge (cfs)	Culvert Discharge (cfs)	Headwater Elevation (ft)	Inlet Control Depth (ft)	Outlet Control Depth (ft)	Flow Type	Normal Depth (ft)	Critical Depth (ft)	Outlet Depth (ft)	Tailwater Depth (ft)	Outlet Velocity (ft/s)	Tailwater Velocity (ft/s)
0.00	0.00	5205.30	0.000	3.200	0-NF	0.000	0.000	3.000	3.230	0.000	0.000
4.15	4.15	5205.31	0.884	3.208	4-FFI	0.674	0.632	3.000	3.230	0.587	0.000
8.30	8.30	5205.33	1.246	3.234	4-FFI	0.970	0.904	3.000	3.230	1.174	0.000
12.45	12.45	5205.38	1.581	3.276	4-FFI	1.209	1.117	3.000	3.230	1.761	0.000
16.60	16.60	5205.43	1.871	3.335	4-FFI	1.425	1.300	3.000	3.230	2.348	0.000
20.75	20.75	5205.51	2.147	3.411	4-FFI	1.628	1.463	3.000	3.230	2.936	0.000
24.90	24.90	5205.60	2.400	3.503	4-FFI	1.829	1.606	3.000	3.230	3.523	0.000
29.05	29.05	5205.71	2.643	3.613	4-FFI	2.038	1.741	3.000	3.230	4.110	0.000
33.20	33.20	5205.84	2.884	3.739	4-FFI	2.269	1.867	3.000	3.230	4.697	0.000
37.35	37.35	5205.98	3.133	3.882	4-FFI	2.582	1.983	3.000	3.230	5.284	0.000
41.50	41.50	5206.14	3.395	4.042	4-FFI	3.000	2.096	3.000	3.230	5.871	0.000

Straight Culvert
Inlet Elevation (invert): 5202.10 ft, Outlet Elevation (invert): 5202.07 ft
Culvert Length: 12.00 ft, Culvert Slope: 0.0025

MANHOLE 1 TO MANHOLE 2

Table 2 - Culvert Summary Table: Culvert 2

Total Discharge (cfs)	Culvert Discharge (cfs)	Headwater Elevation (ft)	Inlet Control Depth (ft)	Outlet Control Depth (ft)	Flow Type	Normal Depth (ft)	Critical Depth (ft)	Outlet Depth (ft)	Tailwater Depth (ft)	Outlet Velocity (ft/s)	Tailwater Velocity (ft/s)
0.00	0.00	5206.14	0.000	3.740	0-NF	0.000	0.000	3.000	3.970	0.000	0.000
4.15	4.15	5206.15	0.862	3.750	4-FFI	0.593	0.532	3.000	3.970	0.587	0.000
8.30	8.30	5206.18	1.244	3.779	4-FFI	0.848	0.904	3.000	3.970	1.174	0.000
12.45	12.45	5206.23	1.558	3.828	4-FFI	1.048	1.117	3.000	3.970	1.761	0.000
16.60	16.60	5206.30	1.869	3.897	4-FFI	1.224	1.300	3.000	3.970	2.348	0.000
20.75	20.75	5206.38	2.144	3.985	4-FFI	1.390	1.463	3.000	3.970	2.936	0.000
24.90	24.90	5206.49	2.397	4.093	4-FFI	1.546	1.606	3.000	3.970	3.523	0.000
29.05	29.05	5206.62	2.640	4.220	4-FFI	1.701	1.741	3.000	3.970	4.110	0.000
33.20	33.20	5206.77	2.881	4.367	4-FFI	1.855	1.867	3.000	3.970	4.697	0.000
37.35	37.35	5206.93	3.130	4.534	4-FFI	2.016	1.983	3.000	3.970	5.284	0.000
41.50	41.50	5207.12	3.393	4.720	4-FFI	2.181	2.096	3.000	3.970	5.871	0.000

Straight Culvert
Inlet Elevation (invert): 5202.40 ft, Outlet Elevation (invert): 5202.17 ft
Culvert Length: 54.00 ft, Culvert Slope: 0.0043

MANHOLE 2 TO MANHOLE 3

Table 2 - Culvert Summary Table: Culvert 2

Total Discharge (cfs)	Culvert Discharge (cfs)	Headwater Elevation (ft)	Inlet Control Depth (ft)	Outlet Control Depth (ft)	Flow Type	Normal Depth (ft)	Critical Depth (ft)	Outlet Depth (ft)	Tailwater Depth (ft)	Outlet Velocity (ft/s)	Tailwater Velocity (ft/s)
0.00	0.00	5207.12	0.000	4.390	0-NF	0.000	0.000	3.000	4.570	0.000	0.000
4.00	4.00	5207.13	0.848	4.401	4-FFI	0.763	0.620	3.000	4.570	0.566	0.000
8.00	8.00	5207.16	1.224	4.435	4-FFI	1.103	0.887	3.000	4.570	1.132	0.000
12.00	12.00	5207.22	1.526	4.491	4-FFI	1.380	1.095	3.000	4.570	1.696	0.000
16.00	16.00	5207.30	1.831	4.569	4-FFI	1.636	1.275	3.000	4.570	2.264	0.000
20.00	20.00	5207.40	2.100	4.670	4-FFI	1.889	1.436	3.000	4.570	2.829	0.000
24.00	24.00	5207.52	2.348	4.793	4-FFI	2.159	1.577	3.000	4.570	3.395	0.000
28.00	28.00	5207.67	2.583	4.939	4-FFI	2.502	1.708	3.000	4.570	3.961	0.000
32.00	32.00	5207.84	2.815	5.107	4-FFI	3.000	1.832	3.000	4.570	4.527	0.000
36.00	36.00	5208.03	3.052	5.298	4-FFI	3.000	1.947	3.000	4.570	5.093	0.000
40.00	40.00	5208.24	3.300	5.511	4-FFI	3.000	2.057	3.000	4.570	5.659	0.000


Straight Culvert
Inlet Elevation (invert): 5202.73 ft, Outlet Elevation (invert): 5202.55 ft
Culvert Length: 123.00 ft, Culvert Slope: 0.0015

MANHOLE 3 TO MANHOLE 4

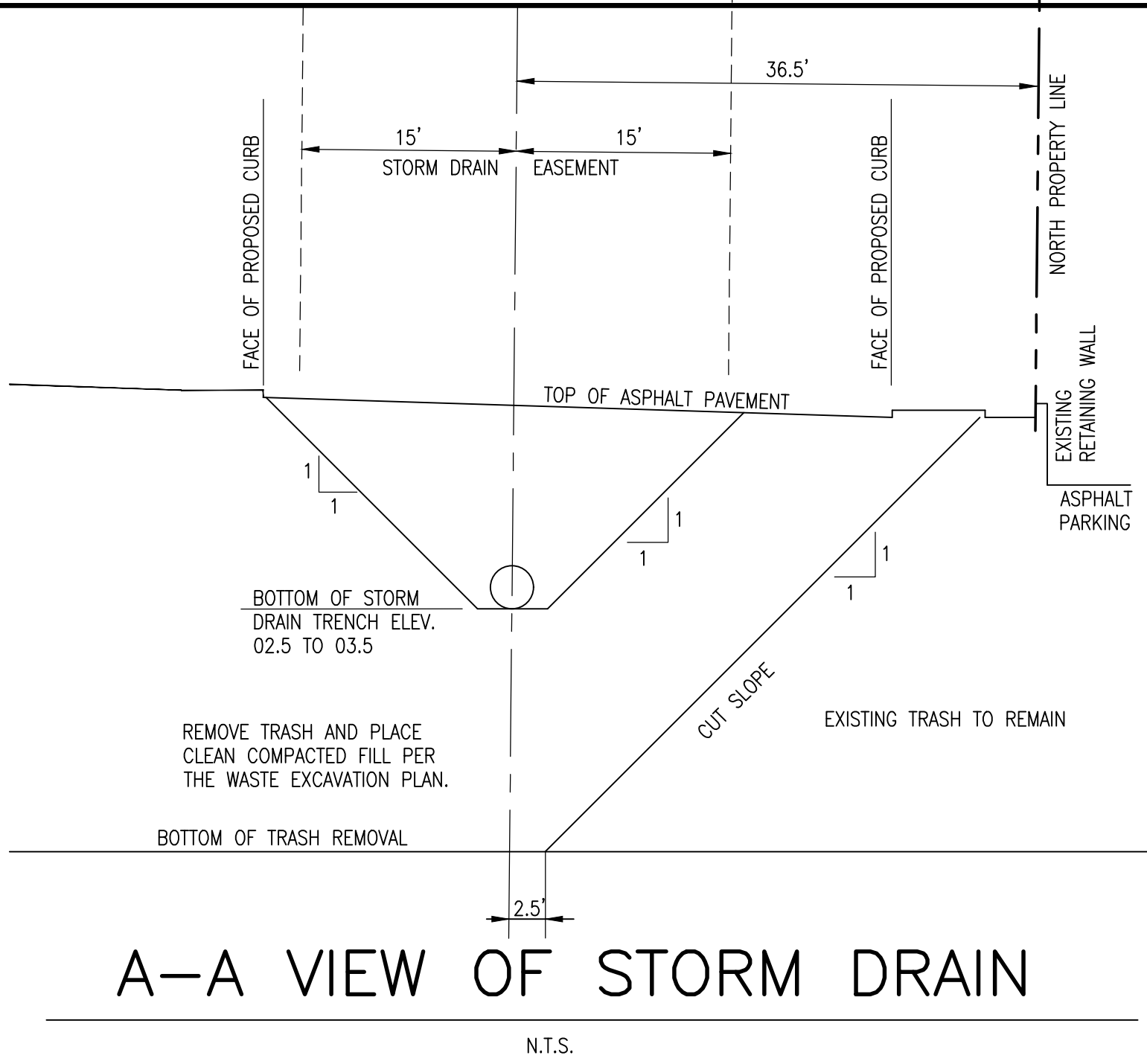
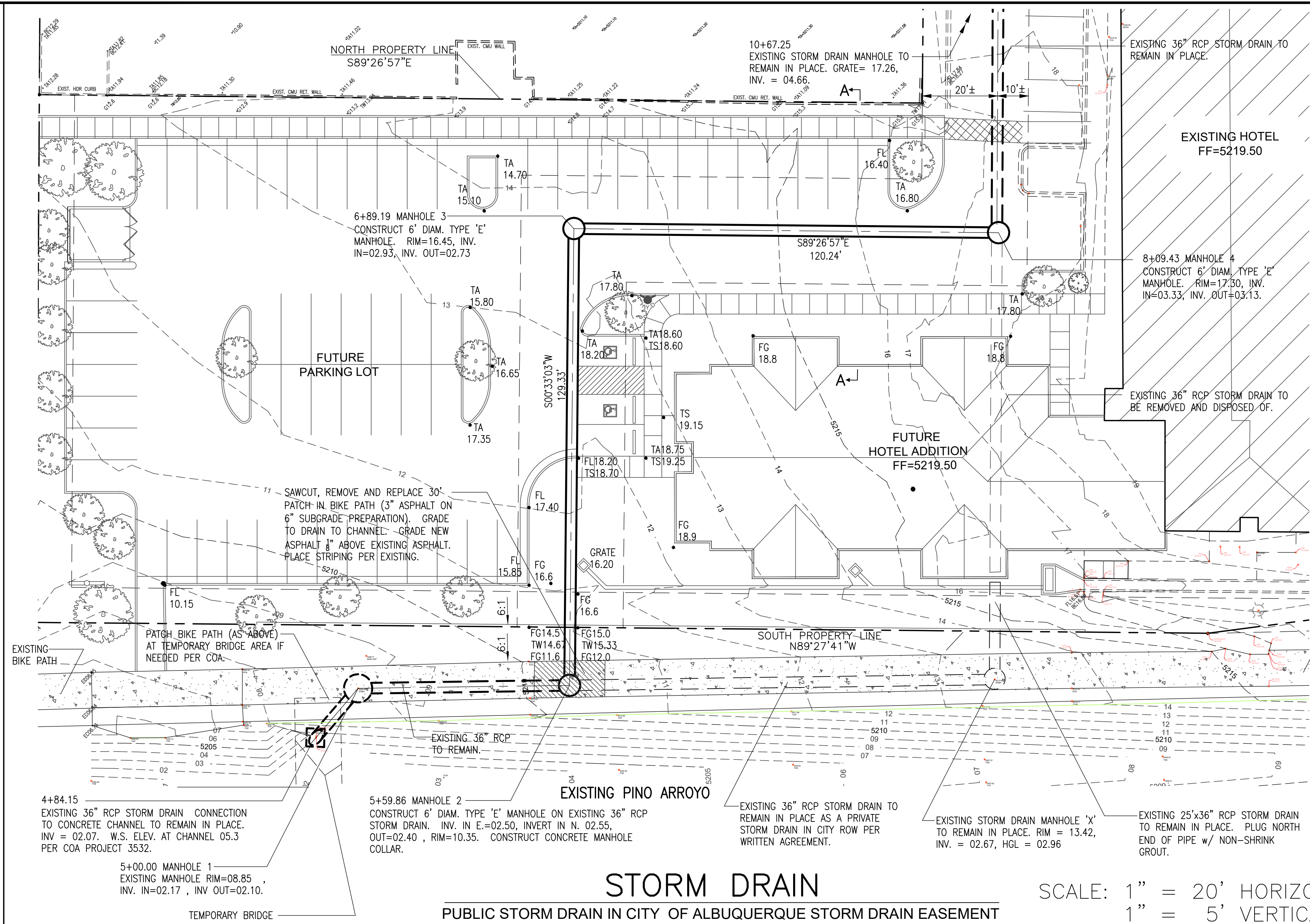
Table 2 - Culvert Summary Table: Culvert 2

Total Discharge (cfs)	Culvert Discharge (cfs)	Headwater Elevation (ft)	Inlet Control Depth (ft)	Outlet Control Depth (ft)	Flow Type	Normal Depth (ft)	Critical Depth (ft)	Outlet Depth (ft)	Tailwater Depth (ft)	Outlet Velocity (ft/s)	Tailwater Velocity (ft/s)
0.00	0.00	5208.24	0.000	4.910	0-NF	0.000	0.000	3.000	5.310	0.000	0.000
4.00	4.00	5208.25	0.847	4.921	4-FFI	0.509	0.620	3.000	5.310	0.566	0.000
8.00	8.00	5208.28	1.221	4.954	4-FFI	0.873	0.887	3.000	5.310	1.132	0.000
12.00	12.00	5208.34	1.523	5.008	4-FFI	1.085	1.095	3.000	5.310	1.696	0.000
16.00	16.00	5208.41	1.828	5.085	4-FFI	1.285	1.275	3.000	5.310	2.264	0.000
20.00	20.00	5208.51	2.097	5.183	4-FFI	1.439	1.436	3.000	5.310	2.829	0.000
24.00	24.00	5208.63	2.345	5.304	4-FFI	1.604	1.577	3.000	5.310	3.395	0.000
28.00	28.00	5208.78	2.580	5.446	4-FFI	1.768	1.708	3.000	5.310	3.961	0.000
32.00	32.00	5208.94	2.812	5.610	4-FFI	1.933	1.832	3.000	5.310	4.527	0.000
36.00	36.00	5209.13	3.049	5.796	4-FFI	2.108	1.947	3.000	5.310	5.093	0.000
40.00	40.00	5209.33	3.297	6.003	4-FFI	2.305	2.057	3.000	5.310	5.659	0.000

Straight Culvert
Inlet Elevation (invert): 5203.33 ft, Outlet Elevation (invert): 5202.93 ft
Culvert Length: 114.00 ft, Culvert Slope: 0.0035

AS BUILT INFORMATION	CONTRACTOR	DATE
	STAKED BY	DATE
	INSPECTOR'S FIELD COMPLIANCE BY	DATE
	VERIFICATION BY	DATE
BENCH MARKS		
SURVEY INFORMATION	FIELD NOTES	NO.
	BY	DATE
ENGINEER'S SEAL	03/28/18	
		
REVISIONS	NO.	DATE
	REMARKS	
	DESIGN	
	DESIGNED BY: BORDENAVE DESIGNS	
DESIGN	DRAWN BY	DATE 02/18
	CHECKED BY	DATE 02/18

CITY OF ALBUQUERQUE			
TITLE: HOMEWOOD SUITES HYDRAULIC CALCULATIONS			
DESIGN REVIEW		ENGINEER APPROVAL	
		MO/DAY/YEAR	
PROJECT NO. 735186		ZONE MAP NO. E-18	SHEET 4 OF 10



NOTE:
ITEM NO. 13 IS AN EXISTING PUBLIC STORM DRAIN. PER AN AGREEMENT AND COVENANT BETWEEN THE CITY OF ALBUQUERQUE AND THE OWNER OF THE ADJOINING PROPERTY THE STORM DRAIN EAST OF MANHOLE (ITEM NO. 16a) IS NOW A PRIVATE FACILITY ON PUBLIC PROPERTY PER A DOCUMENT FILED IN THE PUBLIC RECORDS AS DOCUMENT _____, FILED _____.

NOTE:
THE EXISTING PUBLIC STORM DRAIN THROUGH THIS SITE MUST REMAIN FUNCTIONAL AT ALL TIMES. TEMPORARY DIVERSION DITCHES WILL BE CONSTRUCTED AND MAINTAINED WHEN THE STORM DRAIN IS NOT IN SERVICE.

I, EDWARD MARTINEZ, PE, A REGISTERED NEW MEXICO PROFESSIONAL ENGINEER (NMPE #13731) HAVE REVIEWED THIS STORM DRAIN PLAN. I FIND THIS PLAN MEETS THE REQUIREMENTS AND INTENT OF THE LANDFILL CHARACTERIZATION AND MITIGATION DESIGN FOR HOMWOOD SUITES, 5400 SAN ANTONIO DRIVE NE, DRIVE NE, ALBUQUERQUE, NEW MEXICO FEBRUARY 2017 BY ZIA ENGINEERING (STAMPED 2-15-2017) AND AS PREVIOUSLY APPROVED BY THE CITY OF ALBUQUERQUE ENVIRONMENTAL HEALTH DEPARTMENT.

EDWARD H. MARTINEZ, PE (NMPE #13731)

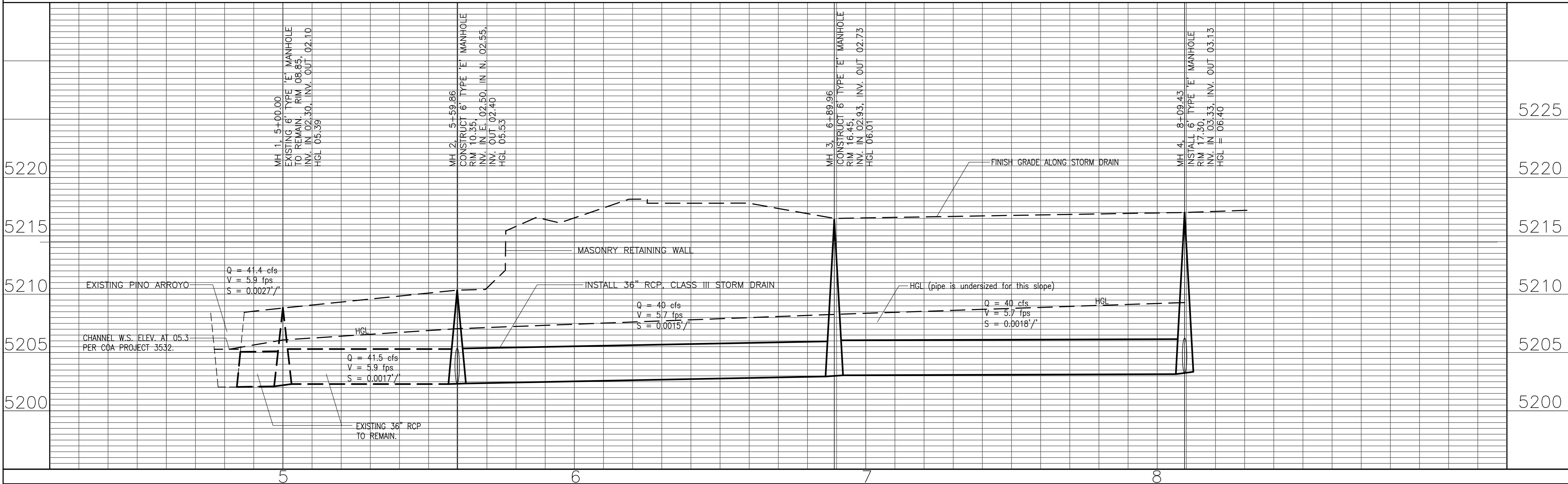
TOPOGRAPHY LEGEND

- G GROUND
- FL FLOWLINE
- TA TOP OF ASPHALT
- TC TOP OF CONCRETE
- BC TOP BACK OF CURB
- TP TOP OF EARTH PAD
- TS TOP OF SIDEWALK
- TW TOP OF WALL
- FH FIRE HYDRANT
- WM WATER METER
- WV WATER VALVE
- CB CATCH BASIN GRATE
- WM WATER METER
- WV WATER VALVE
- MH MANHOLE
- CB CATCH BASIN GRATE
- GM GAS METER
- GV GAS VALVE
- LP LIGHT POLE
- PP POWER POLE
- GW GUY WIRE
- PED ELEC, TEL, CBL PEDESTAL

AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	DATE	INSPECTOR'S DATE	DATE	ELEV. 4920.195 (NAVD 88)	ACCS 7-R11	NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE	DATE
STAKED BY	DATE	INSPECTION BY	DATE	A 3 1/2" ALUMINUM DISK ON A PIPE NEXT TO A POWER POLE AT THE SOUTHWEST CORNER OF TORRES ROAD AND ISLETA BLVD.	13-0783	13-0783	HARRIS SURVEYING INC. 03/2014	03/28/18	NO. 5110	BY	DATE	NO.	BY	DATE	DATE
VERIFICATION BY	DATE	CORRECTED BY	DATE	N= 1,454,112.863, E= 1,507,541.772											
MICRO-FILM INFORMATION	DATE	RECORDED BY	NO.												

CONSTRUCTION NOTES

- SEE SHEET 2 FOR PLAT DIMENSIONS.
- STATIONING IS ALONG THE CENTERLINE OF PIPE. OFFSETS ARE MEASURED PERPENDICULAR TO THE CENTER LINE.
- ALL UTILITY DIMENSIONS ARE MEASURED TO CENTER OF PIPE HORIZONTALLY AND EITHER TOP OF PIPE FOR PRESSURE FLOW LINES OR INVERT OF PIPE FOR GRAVITY FLOW LINES UNLESS OTHERWISE STATED.
- CITY OF ALBUQUERQUE STANDARD DRAWINGS
 - 2208 MANHOLE FRAME AND COVER
 - 2461 MANHOLE CONCRETE COLLAR
 - 2465 PAVEMENT CUTS FOR UTILITIES



CITY OF ALBUQUERQUE			
TITLE HOMWOOD SUITES STORM DRAIN PLAN & PROFILE			
DESIGN REVIEW	ENGINEER APPROVAL	MO/DAY/YEAR	MO/DAY/YEAR
PROJECT NO.	735186	ZONE MAP NO.	E-18
SHEET	3	OF	3

BUSINESS	PHONE/E-MAIL	PERSON
ABCWUA 600 2nd St. NW Alb., NM 87102	Office phone: (505)289-3307 Office fax: (505)768-3629 dggutierrez@abcwua.org	David Gutierrez Prin. Engr., Utilities Dev.
AT&T 111 3rd Street NW Alb., NM 87103	Office phone: (505)842-2911 Office fax: (505)842-2890 dcrowell@att.com	David Crowell Resource Supervisor
Comcast 4611 Montbel NE Alb., NM 87107	Office phone: (505)761-6235 Office fax: (505)761-0599 rita_erickson@cable.comcast.com	Rita Erickson Planning and Design Supervisor
Xspedius Management Co. 505 Marquette NW, Suite 1605 Alb., NM 87102	Office phone: (505)998-2220 Office fax: (505)345-6559 steve.merrill@xspedius.com	Steve Merrill
BCG Assets 721 4th Street NW Alb., NM 871	Office phone: (505)243-2153 Office fax: (505)314-0900 john@bcgassets.com	John Brown Operations Manager
MCI Worldcom 6001 Midway Park NE Alb., NM 87109	Office phone: (505)346-4470 Office fax: (505)346-4481 andy.darnell@mci.com	Andy Darnell Operations Manager
McLeod USA 505 Marquette NW, Suite 1600 Alb., NM 87102	Office phone: (505)244-3161 Office fax: (505)244-0094 Cell Phone: (505)228-3329 rdmueller@mcleodusa.com	Rick Mueller Supervisor of Outside Techs.
PNM-Electric 4201 Edith NE MS-ES61 Alb., NM 87107	Office phone: (505)241-3581 Office fax: (505)241-0559 jhill@pnm.com	Jim Hill
PNM-Gas 4625 Edith NE Alb., NM 87107	Office phone: (505)241-7752 Office fax: (505)241-7740 kbouska@pnm.com	Kelly Bouska District Engineer
Time-Warner Telecom 3830 Singer NE, Suite 1000 Alb., NM 87109	Office phone: (505)938-7339 Office fax: (505)938-7380 Royal.Harrison@twtelcom.com	Royal Harrison Plant Manager
Century Link 400 Tijeras NW, Room 710 Alb., NM 87102	Office phone: (505)767-7445 Office fax: (505)245-6733 natalia.antonia@centurylink.com	Natalia Antonio Engineering

1. All work detailed on these plans to be performed under this contract shall, except as otherwise stated or provided herein, be constructed in accordance with the details and specifications of "City of Albuquerque Standard Specifications for Public Works Construction, 1986 Edition" as amended through update No. 9.
2. Five (5) working days prior to beginning utility construction, the Contractor shall submit to Construction Coordination Division a detailed construction schedule. Two (2) working days prior to the start of construction, the Contractor shall obtain a barricading permit from County and Contractor shall notify the Construction Coordination Engineer (924-3400) prior to occupying any intersection. Refer to Section 19 of the General Conditions of the Standard Specifications.
3. An Excavation Permit and Grading and Paving Permit will be required before beginning any work within City of Albuquerque right-of-way.
4. Two working days prior to any excavation, the Contractor shall contact the New Mexico One Call System at 811, for location of existing lines.
5. All public way striping and signing altered or destroyed shall be replaced. Striping shall be replaced with plastic reflectorized pavement markings by the Contractor. Striping shall be placed in the pre-construction location or as indicated by this plan set.
6. Prior to construction, the Contractor shall excavate and verify the horizontal and vertical location of all obstructions including existing utilities. Should a conflict exist, the Contractor shall notify the Engineer or Surveyor so that the conflict can be resolved with a minimum amount of delay.
7. The Contractor shall coordinate with the Water Utility Authority seven (7) days in advance of performing work that will affect the public water or sanitary sewer infrastructure. Work requiring shutoff of Well Collectors, Transmission Lines, or facilities designated and Master Plan facilities must be coordinated with the water Authority 14 days in advance of performing such work. Only Water Authority crews are authorized to operate public valves. Shut-off requests must be made online at (http://www.abcwua.org/water_shut_off_and_turn_on_procedures.aspx).
8. Back fill compaction requirements shall be according to residential street use.
9. The Contractor shall assume responsibility for any damage to existing pavement, pavement markings, curb and gutter, driveways, wheel chair ramps and sidewalk during construction, apart from those sections indicated for removal on the plans; and shall repair or replace damaged items per City of Albuquerque Standards at the Contractor's own expense.
10. Contractor shall record data on all utility lines and accessories as required by the City of Albuquerque Standards for the preparation of "As Constructed" drawings. Contractor shall not cover utility lines and accessories until all data has been recorded.
11. The Contractor shall notify the Engineer not less than seven (7) days prior to starting work in such a manner that the Engineer may take necessary measures to insure the preservation of survey monuments. Contractor shall not disturb permanent survey monuments without the consent of the Engineer and shall notify the Engineer and bear the expense of replacing any that may be disturbed without permission. Replacement shall be done only by the City Surveyor.
12. The Contractor will be responsible for disposing of all debris, including but not limited to hazardous waste at disposal sites approved by governmental agencies regulating the disposal of such materials.
13. All excavation will be governed by Federal State and Local laws, rules and regulations concerning construction safety and health.
14. All signs and coding will be in accordance with the "Manual of Uniform Traffic Control Devices" 2003 Edition.
15. The Contractor agrees to take necessary safety precautions as required by Federal, State and Local Authorities to protect pedestrian and vehicular traffic in the construction area, which includes but is not limited to: maintaining adequate warning signs, barricades, lights, guard fences, walks and bridges.
16. All excavating, trenching and shoring activities must be carried out in accordance with OSHA 29CFR 1926.650, Subpart P.
17. The Contractor shall perform all work in accordance with the National Pollutant Discharge Elimination System (NPDES) and site specific Storm Water Pollution Prevention Plan (SWPPP) requirements.
18. The Contractor will confine his work within the construction easement limits and/or right-of-way or provide copies of agreements with adjacent landowners to the City of Albuquerque.
19. The Contractor shall submit field test reports to the Project Engineer for review. Sampling and testing schedule shall comply with plan specifications. The Contractor shall also be responsible for recording any changes on the plans and submit detailed as-constructed construction project plans (As-Builts) to the Design and/or Project Engineer.
20. Contractor shall maintain bicycle and pedestrian access along the bike path. A detour shall be provided when construction activities preclude bicycle and pedestrian traffic.

I, EDWARD MARTINEZ, PE, A REGISTERED NEW MEXICO PROFESSIONAL ENGINEER (NMPE #13731) HAVE REVIEWED THIS STORM DRAIN PLAN. I FIND THIS PLAN MEETS THE REQUIREMENTS AND INTENT OF THE LANDFILL CHARACTERIZATION AND MITIGATION DESIGN FOR HOMEWOOD SUITES, 5400 SAN ANTONIO DRIVE NE, DRIVE NE, ALBUQUERQUE, NEW MEXICO FEBRUARY 2017 BY ZIA ENGINEERING (STAMPED 2-15-2017) AND AS PREVIOUSLY APPROVED BY THE CITY OF ALBUQUERQUE ENVIRONMENTAL HEALTH DEPARTMENT.

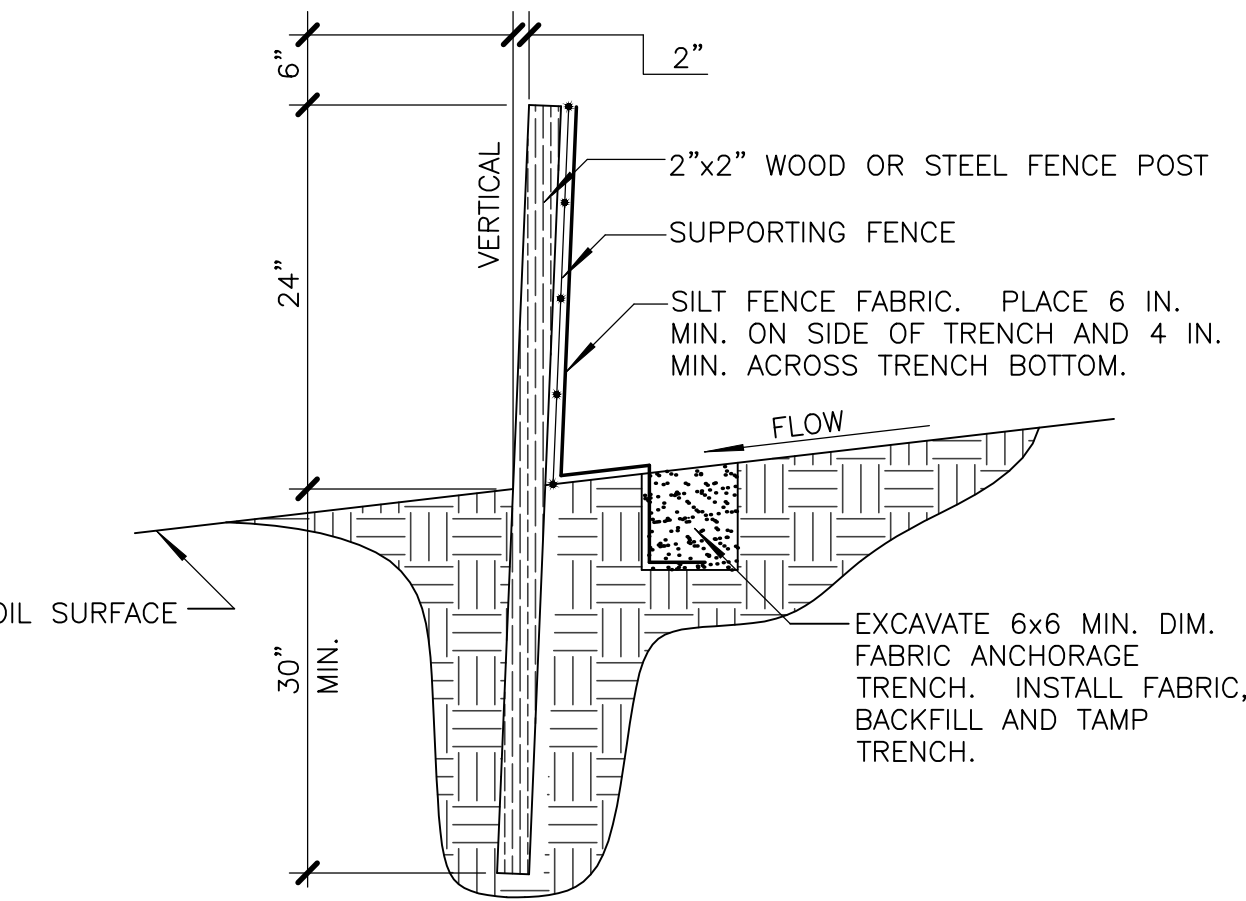
EDWARD H. MARTINEZ, PE (NMPE #13731)

SHEET NO.	SHEET DESCRIPTION
1	TITLE SHEET
2	FILED PLAT
3	PROPOSED STORM DRAIN PLAN & PROFILE
4	CALCULATIONS
5	ESC PLAN
6	TEMPORARY BRIDGE DATA
7	WASTE DATA
8	MISCELLANEOUS DATA
9	PROPOSED SITE GRADING & DRAINAGE PLAN (E18/D050
10	PROPOSED SITE DETAILS (E18/D050)

NOTE:
THE EXISTING PUBLIC STORM DRAIN THROUGHT THIS SITE MUST REMAIN FUNCTIONAL AT ALL TIMES. TEMPORARY DIVERSION DITCHES WILL BE CONSTRUCTED AND MAINTAINED WHEN THE STORM DRAIN IS NOT IN SERVICE.



SILT FENCE



NOTES:

1. POST SPACING SHALL BE NO MORE THAN 10 FT. WITH A SUPPORTING FENCE AND NO MORE THAN 4 FEET WITHOUT A SUPPORTING FENCE.
2. SILT FENCE USED AS A SILT DAM IN CONCENTRATED FLOWS SHALL HAVE A SUPPORTING FENCE AND A POST SPACING OF NO MORE THAN 4 FT. SILT DAMS SHALL BE CLEANED ON A REGULAR BASIS.
3. POSTS FOR 4 FT. MAXIMUM POST SPACING SHALL BE 2 IN. SQUARE, OR HEAVIER, WOOD POSTS OR STANDARD I OR U SECTION POST WEIGHING NO LESS THAN 1.0 LB./FT. POSTS FOR 10 FT. MAXIMUM POST SPACING SHALL BE 4 IN. SQUARE, OR HEAVIER, WOOD POSTS OR STEEL POSTS AS SPECIFIED ABOVE.
4. SUPPORTING FENCE SHALL BE WIRE MESH (14 GA. MIN. WITH 2" MAX. OPENING SIZE).
5. SUPPORTING FENCE SHALL BE FASTENED SECURELY TO POSTS WITH STAPLES OR WIRE TIES. FILTER FABRIC SHALL BE FASTENED SECURELY TO SUPPORTING FENCE WITH WIRE TIES SPACED AT 24 IN. MAX. ALONG THE TOP AND MID-SECTION. WHEN A SUPPORTING FENCE IS NOT USED, FILTER FABRIC SHALL BE SECURELY FASTENED TO POSTS WITH STAPLES OR WIRE TIES.

GENERAL NOTES

1. WHEN DOING WORK IN THE CITY ROW, PREVENT DIRT FROM GETTING INTO THE STREET. IF DIRT DOES IS IN THE STREET, STREET SHOULD BE SWEEP AT THE END OF EACH DAY OR DURING THE DAY IF RAIN IS IMMINENT OR IF THE CONTRACTOR INTRODUCES WATER INTO THE STREET.
2. WHEN CUTTING THE STREET FOR UTILITIES THE EXCAVATED SOIL SHOULD BE PLACED ON THE UPHILL SIDE OF THE STREET CUT OR A WATTLE/FILTER SOCK PLACED AT THE TOE ON THE DOWNHILL SIDE OF THE CUT. THE CONTRACTOR SHALL SWEEP THE AREA AFTER THE CUT IS PAVED.
3. ON STREETS WHERE THE LONGITUDINAL SLOPE IS STEEPER THAN 2.5%, WATTLES OR A J-HOOK SILT FENCE SHALL BE PLACED IN THE FRONT YARD SWALE.
4. WHEN INSTALLING BURIED UTILITIES BEHIND THE CURB THE EXCAVATED SOIL SHALL NOT BE PLACED IN THE STREET.
5. A SEDIMENT POND SHALL BE BUILT AT THE DOWNSTREAM END OF LONG STREETS WITH A LARGE WATTLE OR NUMEROUS SMALLER WATTLES PLACED AT THE POND SPILLWAY.
6. INSPECTION OF EROSION AND SEDIMENT CONTROL AND OTHER PROTECTIVE MEASURES ARE REQUIRED ONCE EVERY 14 DAYS AT A MINIMUM. THIS INSPECTION SHALL ALSO BE PERFORMED AFTER A PRECIPITATION EVENT OF 1/4 INCH OR GREATER. THESE INSPECTIONS SHALL BE CONTINUED UNTIL THE SITE IS CONSIDERED STABILIZED BY THE CITY. INSPECTION REPORTS ARE TO BE KEPT BY THE PERSON OR ENTITY AUTHORIZED TO DIRECT CONSTRUCTION ACTIVITIES ON THE SITE.

KEYED NOTES

1. INSTALL NPDES SIGN. SIGN SHALL BE VISIBLE FROM THE SIDEWALK.
2. INSTALL SILT FENCE PER DETAIL THIS SHEET.
3. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE PER DETAIL THIS SHEET.
4. INSTALL WASHOUT AREA, PORTABLE TOILET AREA.
5. EQUIPMENT STAGING AND MATERIAL STORAGE AREA.
6. NO WATER HARVESTING POND WILL BE CONSTRUCTED ON THIS SITE.

CONSTRUCTION SITE

SAN ANTONIO DR. NE

GENERAL EROSION CONTROL NOTES

SEE SWPPP PLAN FOR CONTRACTOR RESPONSIBLE FOR EACH CONTROL MEASURE LISTED AND BMP DETAILS.

1. ROUGH GRADING PHASE

INSTALL SILT FENCE, STABILIZED CONSTRUCTION SITE ENTRANCE, AND SEDIMENT PONDS WHERE PRACTICAL. INSTALL EROSION CONTROL MEASURES BEFORE ANY GRADING WHERE POSSIBLE. IF NOT POSSIBLE MEASURES SHALL BE INSTALLED CONCURRENT WITH MAJOR GRADING. APPLY WATER TO DISTURBED AREAS FOR SOIL STABILIZATION AS NECESSARY.

2. BUILDING CONSTRUCTION & UTILITY INSTALLATION PHASE

MAINTAIN SOIL EROSION MEASURES DURING ENTIRE PHASE. APPLY WATER TO DISTURBED AREAS FOR SOIL STABILIZATION AS NECESSARY.

3. FINAL STABILIZATION PHASE

INSTALL FINAL STRUCTURAL AND STABILIZATION CONTROLS PER APPROVED SITE WORK AND LANDSCAPING PLANS (REFERENCED BY SWPPP).

SITE SPECIFIC CONTROL NOTES

DURING CONSTRUCTION

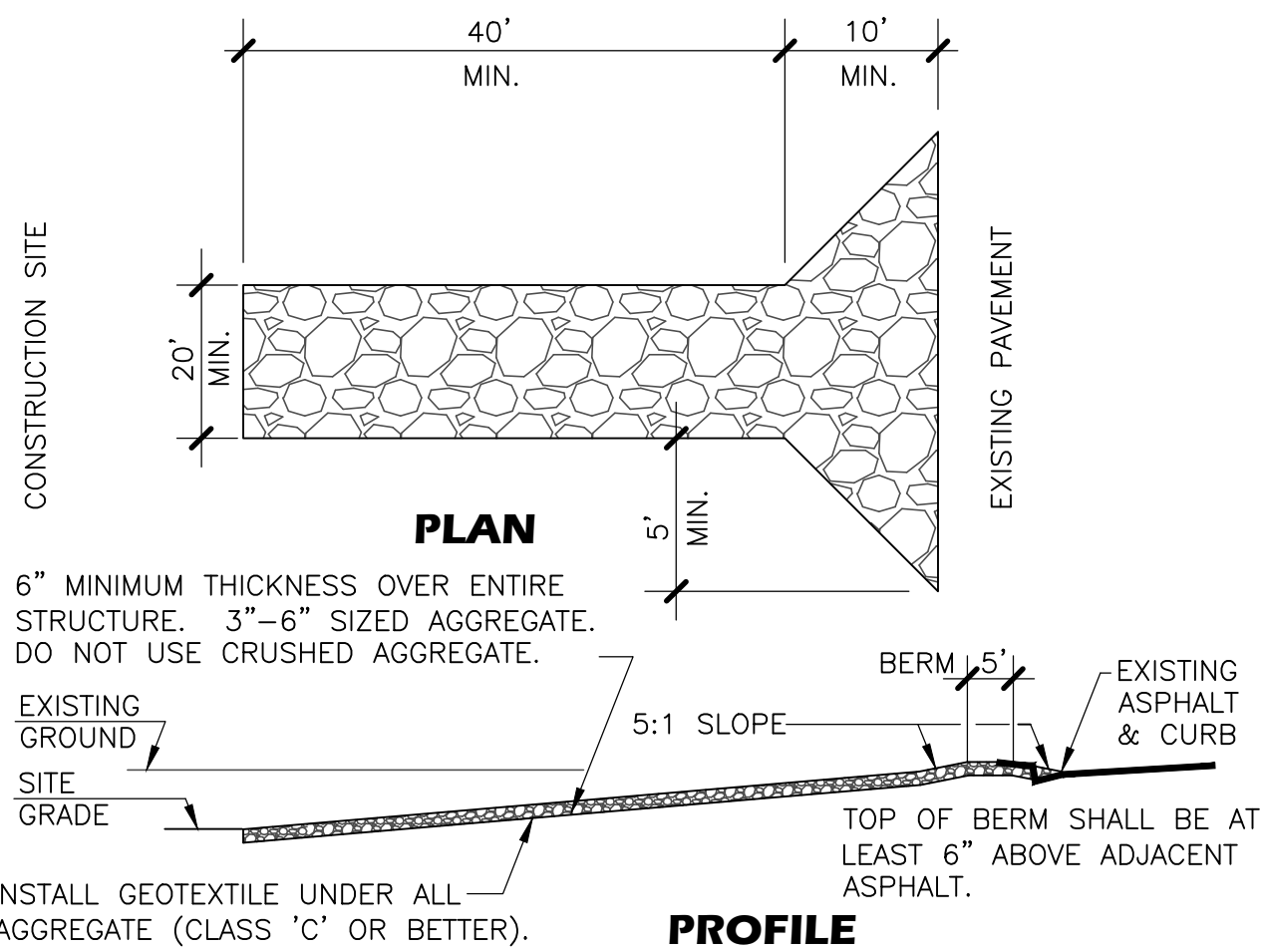
1. INSTALL STABILIZED CONSTRUCTION ENTRANCE REQUIRED BETWEEN PAVED/UNPAVED ROADWAYS.
2. INSTALL SILT FENCE AT INITIAL GRADING FOR TEMPORARY EROSION CONTROL. SILT FENCE MAY BE ATTACHED TO CONSTRUCTION SECURITY FENCING FOR ADDITIONAL STABILITY WHERE NECESSARY.
3. DISTURBED EARTH SURFACES SHALL BE WATERED AS NECESSARY FOR TEMPORARY STABILIZATION AND DUST CONTROL.
4. MATERIAL'S STORAGE AND EQUIPMENT STAGING AREAS MAY BE RELOCATED BASED ON CONTRACTOR PREFERENCE AND CHANGING CONDITIONS ON THE JOB SITE.
5. LOCATIONS OF TRASH, PORTA-LETS AND CONCRETE WASH-OUT PITS TO BE RED LINED ON THIS DRAWING AND A PROTECTED COPY OF SAME SHALL BE AFFIXED TO THE SITE SIGN BOARD CONTAINING SWPPP INFORMATION.
6. THERE IS NO DIRECT DISCHARGE FOR THIS SITE TO WATERS OF THE U.S. OR LISTED WETLANDS.
7. SOILS ARE BEING HAULED TO OR BORROWED FROM AN OFFSITE LOCATION.

AFTER CONSTRUCTION

1. REFER TO APPROVED CONSTRUCTION DRAWINGS FOR FINAL STRUCTURAL CONTROLS INCLUDING SIDEWALKS, DRIVEWAYS, PARKING AREAS, RUNDOWNS, DRAINAGEWAYS AND PONDS.

1. REFER TO APPROVED LANDSCAPING DRAWINGS FOR FINAL STABILIZATION OF PERVIOUS DISTURBED AREAS.

STABILIZED CONSTRUCTION ENTRANCE



VICINITY MAP NO. E-18

I-25

SAN ANTONIO



GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXECUTING ALL APPLICABLE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS. THOSE REQUIREMENTS SHALL INCLUDE, BUT NOT BE LIMITED TO, OBTAINING AN NPDES PERMIT PRIOR TO ANY CONSTRUCTION, FILING THE NOTICE OF INTENT (NOI) AND THE NOTICE OF TERMINATION (NOT) APPLICATIONS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE IMPLEMENTATION AND INSPECTION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INCLUDING THE FILING OF THE INSPECTION REPORTS.

2. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED SWPPP ON-SITE AT ALL TIMES.

3. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL DUST AND EROSION CONTROL REGULATIONS. THE CONTRACTOR PREPARE APPLICATIONS FOR AND OBTAIN ANY NECESSARY DUST OR EROSION CONTROL PERMITS FROM THE APPLICABLE REGULATORY AGENCIES.

4. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS CONCERNING SURFACE AND SUBSURFACE WATER. CONTACT WITH SURFACE AND SUBSURFACE WATER BY CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL BE MINIMIZED. EQUIPMENT MAINTENANCE AND REFUELING OPERATIONS SHALL BE PERFORMED IN AN ENVIRONMENTALLY SAFE MANNER IN COMPLIANCE WITH GOVERNMENT REGULATIONS.

5. WHERE PRIVATE STORM DRAIN INLETS ARE SUSCEPTIBLE TO INFLOW OF SILT OR DEBRIS FROM, OR DUE TO, CONSTRUCTION ACTIVITIES, PROTECTION FROM SAID INFLOW SHALL BE PROVIDED UTILIZING BEST MANAGEMENT PRACTICES (BMPs) IDENTIFIED IN THE APPROVED SWPPP.

NO OFFSITE STORM DRAIN INLETS SHALL BE BLOCKED. ONLY ONSITE/PROPOSED STORM DRAIN INLETS CAN BE BLOCKED DURING CONSTRUCTION.

6. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE IT SHALL BE REMOVED FROM THE ADJACENT PROPERTY OR RIGHT-OF-WAY AT THE TIME OF OCCURRENCE. IN ADDITION, THE CONTRACTOR SHALL MAINTAIN A REGIMEN OF STREET SWEEPING AND GENERAL CLEAN-UP MEASURES.

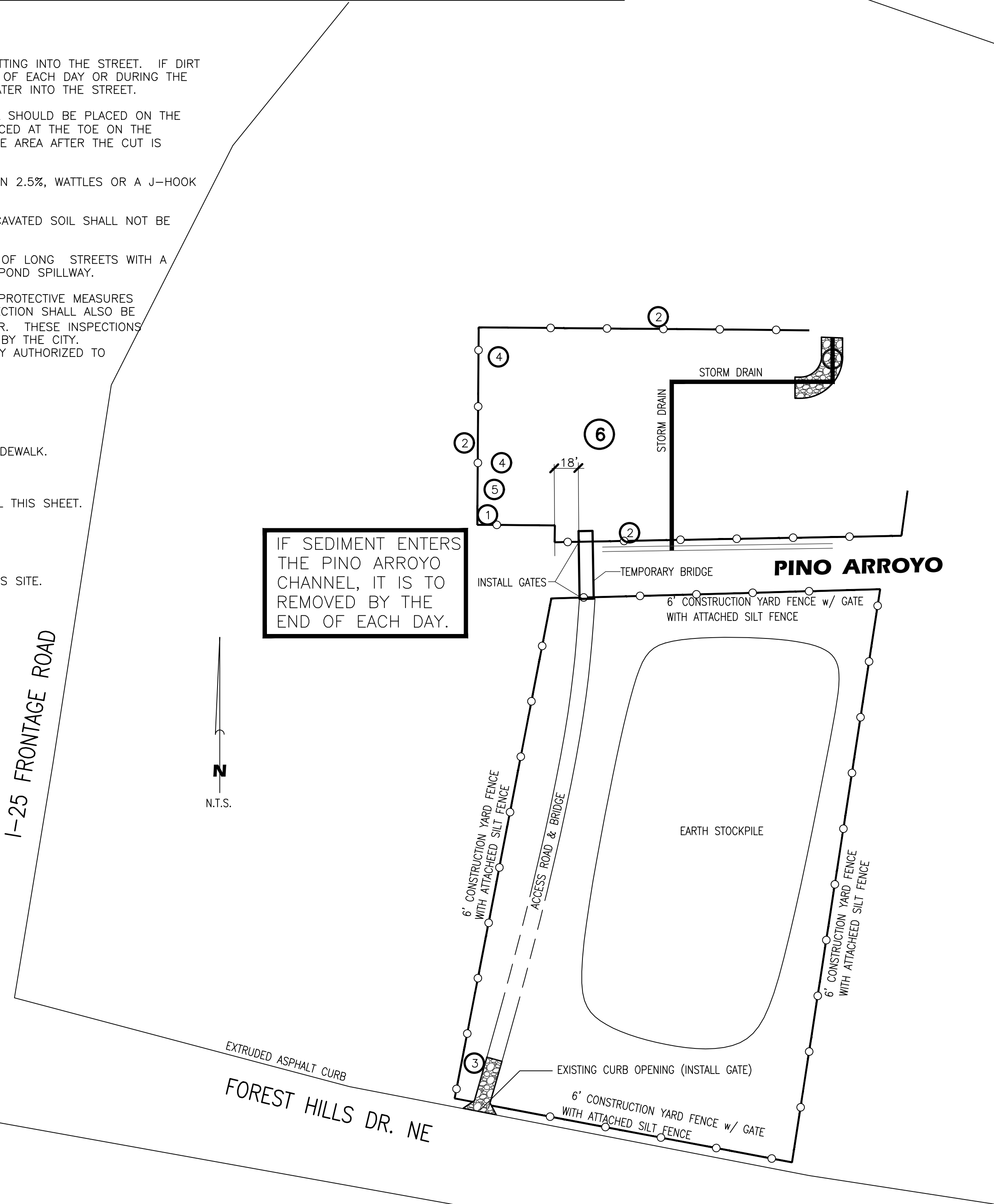
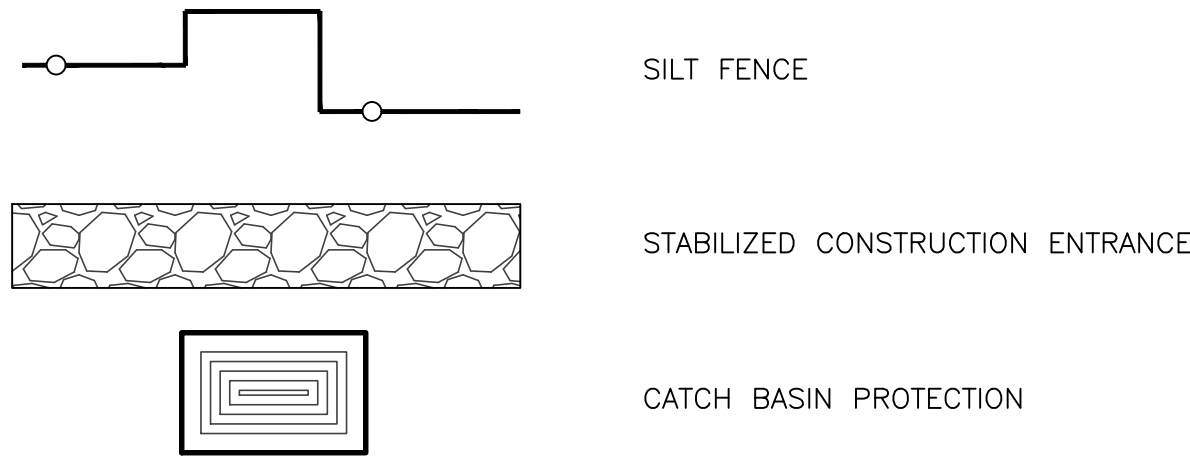
7. ANY AREAS DISTURBED BY CONSTRUCTION AND NOT TO BE COVERED BY DESIGNED LANDSCAPING OR IMPERVIOUS SURFACES SHALL BE REVEGETATED WITH NATIVE GRASS SEEDING. UNLESS INDICATED OTHERWISE ON THESE PLANS OR ON THE LANDSCAPING PLAN, NATIVE GRASS SEEDING SHALL BE CLASS 'A' SEEDING PER SECTION 1012 OF THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, APWA NM CHAPTER, LATEST EDITION.

WHEN CONSTRUCTION ACTIVITIES CEASE AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME WITHIN 14 DAYS, SURFACE STABILIZATION MEASURES, AS DEFINED ON THE SWPPP, MUST BE INITIATED.

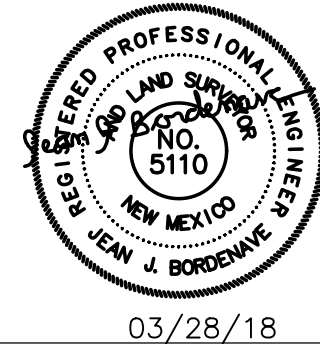
8. ALL WASTE PRODUCTS FROM THE CONSTRUCTION SITE, INCLUDING, BUT NOT LIMITED TO, ITEMS RESULTING FROM DEMOLITION, CONSTRUCTION WASTE, CONSTRUCTION EQUIPMENT WASTE PRODUCTS (OIL, GAS, DIESEL, TIRES, ETC.), GARBAGE, DEBRIS FROM GRUBBING AND EXCESS CUT MATERIAL SHALL BE APPROPRIATELY DISPOSED OF OFF-SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE PROPER PERMITS TO HAUL AND DISPOSE OF WASTE PRODUCTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WASTE DISPOSAL SITE IS PROPERLY PERMITTED PER LOCAL, STATE AND FEDERAL REGULATIONS TO ACCEPT THE WASTE BEING DISPOSED OF.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPORTING AND CLEAN-UP OF SPILLS OF HAZARDOUS MATERIALS ASSOCIATED WITH THE CONSTRUCTION SITE. HAZARDOUS MATERIALS ARE THOSE WHICH MAY BE A THREAT TO THE ENVIRONMENT, INCLUDING, BUT NOT LIMITED TO, GASOLINE, DIESEL FUEL, MOTOR OIL, SOLVENTS, CHEMICALS AND PAINTS. THE CONTRACTOR SHALL REPORT THE DISCOVERY OF PAST OR PRESENT SPILLS TO THE NEW MEXICO ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE TEAM AT 505-827-9329.

BMP LEGEND



OVERALL CONSTRUCTION SITE



project title
**HOMESTEAD SUITES
SAN ANTONIO NE
ALBUQUERQUE, NM**

sheet title
EROSION & SEDIMENT CONTROL

drawn by METO design by JJB project no. 1715



BORDENAVE DESIGNS
P.O. BOX 91194, ALBUQUERQUE, NM 87199

sheet 5 of 10



PHOTO OF BRIDGE IN PLACE

City of Albuquerque Building Safety Division
Albuquerque, NM 87102
Office: 505-224-3964 Fax: 505-224-3967

PLAN REVIEW APPLICATION (for information purposes only)
PROJECT NO. 218-04120
ADDITIONAL PERMITS

REFUSE FROM MASTER PLAN #
CITY PROJECT #

TYPE OF APPLICATION:
☒ COMMERCIAL
☐ RESIDENTIAL
☐ TENANT IMPROVEMENT
☐ GARDEN WALL, FENCE, RETAINING WALL
☐ FOUNDATION FOR AGGRICULTURAL BUILDING
☐ FOUNDATION FOR MOVED BUILDING
☐ OTHER

NEW BUILDING
REMODEL
REPAIR
FOUNDATION ONLY

OWNERSHIP:
☒ PRIVATE
☐ PUBLIC

CONSTRUCTION DATA (THIS PROJECT ONLY)
SQUARE FOOTAGE: 3,000
GARAGE: 600
CARGO PORCH: 600
TOTAL SQ. FT.: 6,000

VALUATION OF WORKS: 3,000
OF PHASES: 1 (MUST BE APPROVED AT SUBMITTAL)
OCCUPANT LOAD: N/A (FOR COMMERCIAL PROJECTS ONLY)
OCCUPANT GROUP: N/A CONSTRUCTION TYPE: N/A

OF STORES: 1
OF APT. OR MOTEL UNITS: N/A

DESCRIPTION OF WORK:
Installation of temporary bridge and associated cost in place, abutments, bridge and abutments will be removed back project done. Est. time 90 days. A Hatched is bike closure permit for 90 days.

PERSON WHO WILL UPD. ELECTION PLANS (APPLICANT)
NAME: Tim Ott
ADDRESS: 5400 Santa Fe Trail, NE
CITY: Albuquerque, NM 87110
PHONE: 505-252-7475

ARCHITECT/ENGINEER/DESIGNER
NAME: Michael J. Walla
ADDRESS: 6501 Americas Parkway NE, Suite 301, Albuquerque, NM 87110
PHONE: 505-881-3008

CONTRACTOR
NAME: M.J. Walla LLC
ADDRESS: 6501 Americas Parkway NE, Suite 301, Albuquerque, NM 87110
PHONE: 505-881-3008

CONSTRUCTION ADDRESS: 5400 Santa Fe Trail, NE
WITHIN 100' OF FORMER LANDFILL: YES ☒ NO ☐

LOT: 100-000000-0000-0000
TRACT: 100-000000-0000-0000
CITY: Albuquerque, NM 87110
ZONE: U-1A
SUBDIVISION: 100-000000-0000-0000

OWNER: M.J. Walla LLC
ADDRESS: 6501 Americas Parkway NE, Suite 301, Albuquerque, NM 87110
PHONE: 505-881-3008

DATE: Feb 5, 2018

SIGNATURE: [Signature]

COA BRIDGE PERMIT

E&M
Engineers and Surveyors PC

24 Derrick Road
Bradford, PA 16701-3350
814-362-5546
Fax 814-362-3023
www.emengineers.com

Glenn D. Cooley, PE
Roy R. Pedersen, PE
James A. Nearhood, PLS
Jeffrey C. Bahret, PE
Allan R. Vanderpoel, PE
Christopher M. Ernst, PE

October 27, 2005

Re: Bridge Submittals

To Whom It May Concern:

This is certify that the attached bridge drawings (File HS25-50, dated 10/27/05) with specifications as listed below will have an HS25 (45 ton) load capacity.

- The bridge is designed in accordance with the 2002 AASHTO Standard Specification for Highway Bridges, 17th Edition with the following load criteria and exceptions.
- The bridge design will be able to handle HS-25 loads, based on bending moment and shear stress requirements. Deflection limitations recommended by AASHTO have not been taken into account, resulting in some deflection under loads larger than allowed by AASHTO (length in inches/800). Impact to the bridge has been estimated at 10% maximum based on the restriction that the bridge will have a 10 mph speed limit.
- 50' total length, center of tow bar to center of tow bar, with center to center bearing length of 48' maximum.
- Axle loads: 10,000 lb (steering axle), 40,000 lb (driving axle), 40,000 lbs (trailer axle), with 14' spacing between the steering axle and driving axle, and a minimum of 14' spacing between the driving axle and the trailer axle.
- Deck: The typical laminated decking system is nominal 2" x 4" treated southern yellow pine, laid edgewise perpendicular to the bearing stringers. 3 1/2" x 6" white oak has been tested and field proven to be an acceptable alternative, although horizontal shear stress is larger than recommended in the National Design Specification for wood construction by the National Forest Products Association.

Very truly yours,
E & M ENGINEERS AND SURVEYORS, P.C.

[Signature]
Allan R. Vanderpoel, P.E.
Project Engineer

ARV/mm

MANUFACTURER'S STATEMENTS

Walla
ENGINEERING LTD

Structural Engineering • Civil Engineering

February 2, 2018

Mr. Tim Ott
ISBS, LLC
P.O. Box 298
Socorro, NM 87801

Re: Pino Arroyo Temporary Bridge
Albuquerque, NM

Mr. Ott,

I have completed a structural review of the 50' Portable Bridge design and drawings provided by Matrx, Inc. that you will be using to span the Pino Arroyo to provide truck access across an existing concrete lined drainage channel. The channel is approximately 36 feet wide and the bridge will be supported by concrete footings designed and detailed by this office, constructed on either side of the channel. The structural calculations indicate that the bridge is constructed with three W21x62 steel beams per side with wood planking used for a driving surface. The bridge is designed to support an AASHTO HS-25 truck loading as defined by the 2002 AASHTO Standard Specification for Highway Bridges, 17th Edition. This loading consists of 3 axes that are defined as 10,000 lb (steering), 40,000 lb (driving) and 40,000 (trailer). These axes will be spaced at 14 ft between the steering and driving axes and a minimum of 14 ft between the driving and trailer axes. My review of this bridge drawing indicates that the bridge is adequate to support this load and is an appropriate structure for this use and loading. Please be aware that the bridge is designed for a maximum speed of 10 MPH and this limit should not be exceeded in order to limit deflection of the structure.

If you have any questions regarding this information please do not hesitate to contact me.

Respectfully,
[Signature]
Michael J. Walla P.E.
President, Walla Engineering, Ltd.

MJWHs

6501 Americas Parkway NE Suite 301
Albuquerque, NM 87110
(505) 881-3008 • Facsimile (505) 881-4025
Mike J. Walla P.E. • Larry E. Kennedy

BRIDGE ENGINEER'S DETAILS & STATEMENT

N.T.S.

Matrx
One Size Does Not Fit All

Hinged Bridge Handling Procedures

TEMPORARY FOUNDATIONS/BEARING SURFACES

The foundation/bearing requirements are dependent on the stability of the stream banks and local soil conditions. It is the customer's responsibility to determine the appropriate level of analysis/design given their specific use, however given the temporary nature and limited use/traffic volume, most customers do not perform a formal analysis/design but rather rely on their construction expertise to provide an appropriate bearing surface. Examples of temporary bearing surfaces that have been successfully used in the past with the bridges include precast concrete blocks, timber mats, and rock-filled gabion baskets. In some situations it is possible to place the bridges on a crushed stone pad or even directly on native ground.

TRANSPORT & INSTALLATION

The hinged design allows the bridge to be transported as one assembly with guardrail and timber deck pre-installed, while still hauling as a legal-width load. The bridges are designed with heavy duty towbars, tapered beam ends, and additional reinforcing and are designed for "skidding" via pushing/pulling with heavy equipment at one or both ends, and can also be carried between two pieces of equipment. They can be set in place utilizing a crane or, if the "far" side of the crossing can be accessed with a piece of heavy equipment (ideally an excavator), they can often be pulled across and into position. Once in place the bridge is folded open, and four pins are installed to maintain it in the open position. Lastly a series of steel "center panels" drop in place by hand to cover the hinge location. Typical installation time is one hour with one laborer, plus equipment/operators. It is possible to remove the top hinge pins and split the sections apart to set them individually and cut handling weight approximately in half.

PRIOR TO INSTALLATION AND OPENING

- Provide a level and uniform bearing surface at each end of the bridge.
- Inspect the area between the double hinge plates to ensure it is free of mud or debris. Any foreign matter located between these plates will prevent the bridge from opening fully.
- Ensure lower hinge pins are removed.

OPENING THE BRIDGE

- Ensure the area to be occupied by the section being opened is completely clear of any obstructions, as well as personnel.
- Place rigging around exterior stringer/towbar on the folded half (at either end), using a basket hitch (see attached photo). Nylon straps are ideal, although chains will also work. Approximately 3' of strap/chain above the stringer is required to maintain clearance between the machine and the guide rail as the bridge is folded open.
- Swing the folded half open in a smooth, controlled manner. The rigging should slide/rotate as the section is unfolded.

Matrx, Inc. / 855.MAT.ROAD / info@matrxinc.com
www.matrxinc.com

CITY OF ALBUQUERQUE

TITLE: **HOMEWOOD SUITES
TEMPORARY BRIDGE DATA**

DESIGN REVIEW: [Signature] ENGINEER APPROVAL: [Signature]

PROJECT NO. 735186 ZONE MAP NO. E-18 SHEET 6 OF 10

MO/DAY/YEAR: [Blank] MO/DAY/YEAR: [Blank]

DESIGNED BY: BORDENAVE DESIGNS DATE: 02/18
DRAWN BY: METO DATE: 02/18
CHECKED BY: JUB DATE: 02/18

Form No. A-66 New 03/13

NEW MEXICO DEPARTMENT OF TRANSPORTATION (NMDOT)

TRAFFIC CONTROL/ROADWAY WORK PERMIT

NMDOT Project Number (If Applicable): N/A Control Number: _____

General Scope of work: Closure of Bike Path

Contractor Name: ISBS LLC

Contact Person: Tim Ott

Contact Telephone: (505) 250-4675 Fax: () - _____

Traffic Control Firm: HIGHWAY SUPPLY

Certified Traffic Control Supervisor: _____

Contact Telephone: (505) 250-4675 Fax: () - _____

Work Zone Location Information:

Route: East Frontage Rd Forest Hills to Pino Arroyo

Mile Post: From _____ To: Bike Path

Or Intersection: Forest Hills Drive Intersection: _____

Direction (NB, SB, EB, WB, or both): NB

☒ 2 lane Road ☐ 4 lane Road ☐ 6 lane Road ☐ 8 Lane Road ☐ Divided ☒ Undivided

Existing Speed limit in area: 25 MPH or Ranges from _____ MPH to _____ MPH

Proposed Speed Limit reduction within work zone (If Applicable): N/A MPH

Working Duration:

Start Date: Feb 13, 2018 End Date: May 5, 2018

Daily Start Time: 24 hrs End Time: _____

Purpose of Permit:

☐ Roadway Construction/Rehab. ☐ Shoulder Work

☒ Signal and Lighting Work ☐ Utility work

☐ Drainage/Excavation work ☐ Soil Testing

☐ Signing and Striping Placement

Other: Temp Bridge will Block Bike Path

TCP Plan Enclosed ☒ (TC Permit will not be processed without a TCP plan)

If no, describe why: _____

Approval is conditioned on the following terms that are deemed accepted by the Contractor upon submission of this Permit

1. Traffic Control for operations under this permit shall conform with the Manual on Uniform Traffic Control Devices (MUTCD).

2. The Contractor agrees to indemnify and hold harmless the NMDOT and its employees from liability, claims, damages, losses or expenses due to any negligent act of the Contractor, the Contractor's employees, any agent acting on the Contractor's behalf, and anyone else engaged by the Contractor to work pursuant to this permit.

3. The Contractor shall provide the NMDOT with a certified copy of the insurance policy and certificate of insurance and shall include on the certificate of insurance the NMDOT as an additional named insured, with notice that the coverage is primary over any other valid insurance.

4. Any additional conditions are attached and referenced below.

For Official Use:

☐ Approved (see conditions below) ☐ Approved As Amended ☐ Not Approved

Contractor/TCP firm SHALL contact the District Office and confirm the actual start dates.

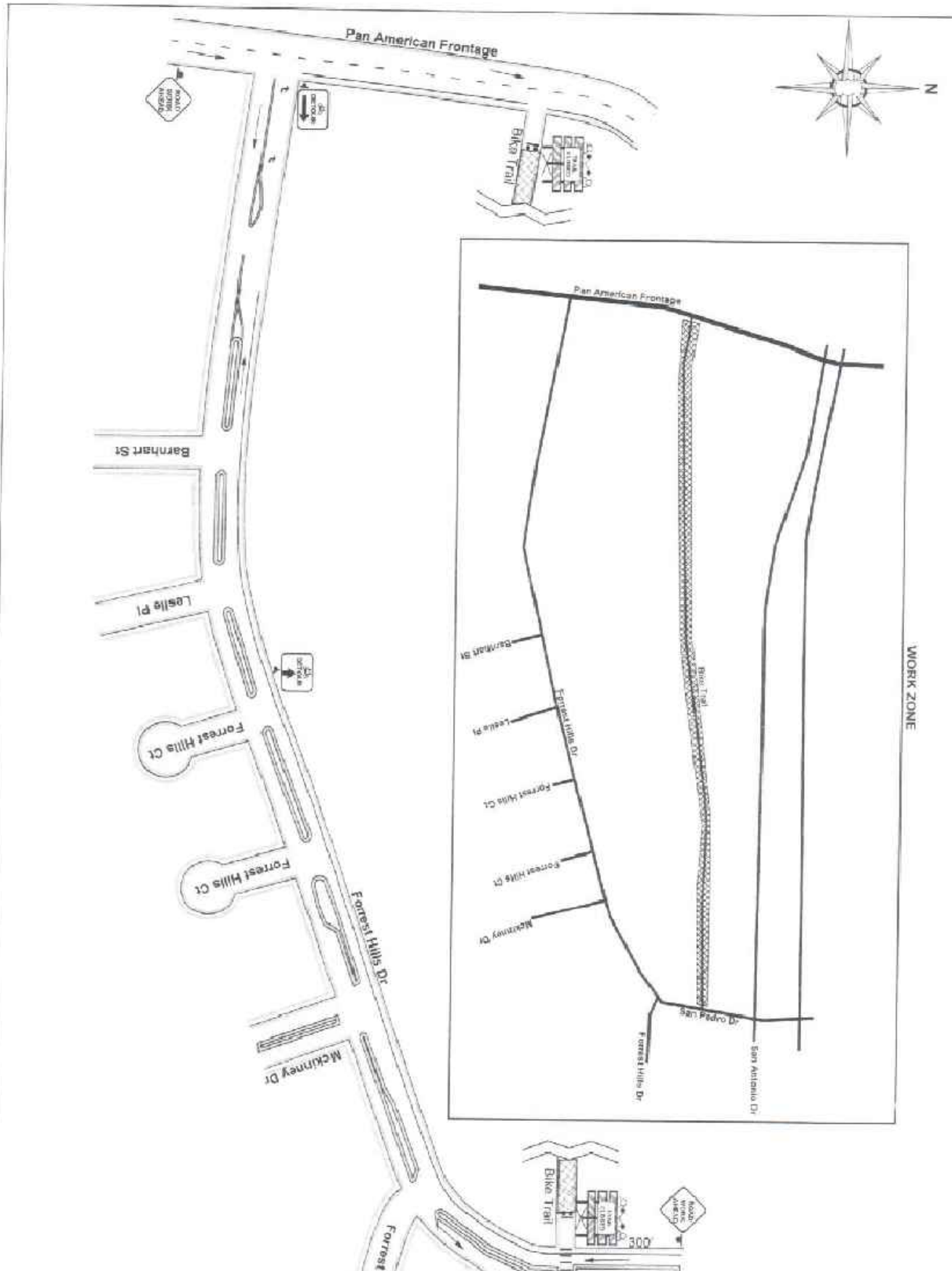
TCP Firm and Contractor must adhere to the attached notes.

Permit Number: _____

Approved By: _____

NMDOT District Office - Traffic Section

Submitted to the District Public Information Officer By: _____ On: _____



Designed By: Highway Supply Author: Tim Gonzalez Date: 12/21/17 Sheet: 1/1 Revisions: _____

Notes/Comments: Notes: 1. Traffic Control Firm: Highway Supply (505) 345-8265

DESIGNED FOR: ISBS LLC

TCP Index #: 031632

NOT TO SCALE

BIKE PATH CLOSURE

N.T.S.

City of Albuquerque Planning Department

Stormwater Control Permit for Erosion and Sediment Control

Project Title: Hemwood Suite Addition

Project Location (Major Cross Streets Arroyo or address): 5400 San Antonio NE

Property Owner: (Note: If applying for a Building Permit, the "Company" or "Owner" name on this form must match the "Owner" name on the Building Permit.)

Company Name or Owner Name: Mountain West Lodging LLC

Responsible Person: (Note: Name below may be the same as Owner Name above if there is no Company Name)

Name: Vinodh Perumal

Phone Number: 505-879-7168

E-mail: Vinodh@vetringt.com

Site Contact: (if different than Property Owner info above)

Name: Tim Ott

Phone: 505 250 4675

e-mail: truemind110@gmail.com

For City personnel use only:

City Personnel Signature: Curie C. Chum Date: 3-2-18

(Rev June 2017)

E18E050

ESC PERMIT

Floodplain Development Permit Form Planning Dept., City of Albuquerque

Section 1: General Provisions (Applicant to read and sign)

1. No work of any kind may start until a permit is issued.
2. Applicant is hereby informed that other permits may be required to fulfill local, state, and federal regulatory requirements.
3. Applicant hereby gives consent to the Floodplain Administrator and his/her representative to make reasonable inspections required to verify compliance.
4. Applicant must provide a Critical Habitat for Threatened & Endangered Species report if working on or near an endangered species area.
5. The applicant certifies that all statements herein and in attachments to this application are, to the best of my knowledge, true and accurate.

Applicant Signature: Vinodh Perumal Date: 02/22/18

Applicant Printed Name: VINODH PERUMAL Phone #: 505-879-7168 (cell)

Owner Signature: _____ Date: _____

Owner Printed Name: _____ Phone #: _____

Section 2: Proposed Development in Special Flood Hazard Area (to be completed by Applicant)

Brief Project Description: Adding 26 Guest rooms, Fitness Center, Laundry room.

Applicant is (check one): Owner ☒ Builder ☐ Engineer/Architect ☐

Project address/Legal Desc/Location: 5400 San Antonio Dr NE, ABE, NM 87109
TRACT 2A3 J Group Addition

Description of Work in Special Flood Hazard Area (SFHA):

A. Development Activities

Clearing ☐ Fill ☒ Drilling ☐ Excavation ☒

Watercourse Alteration _____ (Including Dredging and Channel Modifications)

Drainage Improvements _____ Road, Street or Bridge Construction _____

Rev. August 2017

FLOODPLAIN DEV. PERMIT

ACCESS LICENSE

This agreement is between Presbyterian Healthcare Services. (licensor) and ISBS LLC

The licensee wishes to obtain a license to use vacant real estate located at 7202 Frontage Road NE owned by licensor for the purpose of storage of material, placement of material storage containers, and placement of temporary access bridge, and transport of material off the property. The period allowed access for the storage, placement and transport of the material is for eight (8) months beginning on

January 22nd of 2018. The period of the access for placement of a temporary bridge is for Five (5) months starting on January 22nd of 2018. The permitted activities by the licensee will be limited to activities involved in the excavation of material from property owned by the licensee, stockpiling the material on the licensor's vacant land, placement of the stock piled material in storage containers for re-location and transport off the property and placement of the temporary bridge.

The licensee will access the licensor's property as indicated on the attached photo in order to place material (Exhibit 1). The material that will be placed in storage and moved off the property will move through the licensor's property as indicated on the photo.

The licensee's activities will be limited to 6 AM to 6 PM for the period of time for access. The licensee indemnifies and holds harmless the licensor for any and all acts, conditions, harm, or impacts caused by the licensee or its agents, employees, or contractors to third parties or to the licensor related to this license agreement. In addition, the licensee shall name the licensor as an additional insured on its liability policy for the project that is being performed pursuant to this license, Certificate of Additional Insured to be read as Presbyterian Healthcare Services, PO Box 26666, Albuquerque, NM 87125-6666. The licensee is allowed to utilize the license described herein through contractors and agents in performance of a project for the benefit of the licensee. This

license will extend to both the licensee, and its contractors, agents and employees. This license will terminate as follows:

1. For the temporary access bridge on June 25, 2018.
2. For the storage and placement, access, and transport on November, 2018.

In the event the licensee is making significant progress on the project and needs additional time, it may request that this license be extended.

The licensee agrees that it will return the vacant land to the licensor in the same condition as when the property existed when the license began. The parties may document the condition of the property prior to license and the licensee shall be obligated to restore the property to that same or better condition.

It is so agreed.

Presbyterian Healthcare Services Inc.

By its


ISBS LLC

By its

PHS AGREEMENT

AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	DATE	INSPECTOR'S	DATE	NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE	BY		
STAKED BY	DATE	FIELD	DATE	NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE	BY		
VERIFICATION BY	DATE	CORRECTED BY	DATE	NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE	BY		
MICRO-FILM INFORMATION				REVISIONS				DESIGN							
RECORDED BY	DATE	NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE		
CITY OF ALBUQUERQUE												TITLE		HOMWOOD SUITES PERMITS & AGREEMENTS	
DESIGN REVIEW				ENGINEER APPROVAL				MO/DAY/YEAR				MO/DAY/YEAR			
PROJECT NO.				ZONE MAP NO.				SHEET				OF			
735186				E-18				8				10			

CITY OF ALBUQUERQUE



February 6, 2018

Mr. Edward Martinez,P.E.

This Letter serves as approval that landfill buffer requirements by Zia Engineering for the Homewood Suites site at 5400 San Antonio Drive, NE Albuquerque, NM. This approval is based on the 2017 Mitigation Report by Zia Engineering (Stamped 2-15-2017) with addendum date February 5, 2018.

Please note the following requirements:

DRC plans will require review and approval by the landfill gas engineer, Zia Engineering.

Building permit and/or any other permit for construction of this project shall require the following conditions of approval:

Condition of approval:

The following documents must be uploaded to the Documents folder to the Planning Building Permit Review system:


a. The 2017 Mitigation Report by Zia Engineering (Stamped 2-15-2017) with addendum dated February 5, 2018.

b. This letter showing EHD review of the assessment report

c. Letter from the owner agreeing to the requirements of the mitigation plan and amendment by Zia Engineering

Please submit a copy of this letter with all paper and electronic submissions for all permit reviews.

Thank you,



Paul Olson, PE
Environmental Health ESD
505/768-2633

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

February 6, 2018


To ,

Mr. Paul Olson PE,

Environmental Health ESD

I Vinodh N Perumal Authorized Manager of Mountain West Lodging, LLC DBA Homewood Suites located at 5400 San Antonio Dr, Albuquerque, New Mexico. We agree to do the work designed and Approved by Mr.Eddie H Maritnez of Zia Environmental Engineering Service for Methane Mitigation Plan, with addendum dated on February 5th of 2018 approved by Mr., Paul Olson with City of Albuquerque.

Thank You



02/06/18.

Vinodh Perumal

Manager

Mountain West Lodging LLC,

DBA

Homewood Suites

5400 San Antonio Dr NE

Albuquerque NM 87109

Cell: 505-879-7168

Email:Vinodh@vetrimgt


HEALTH AND SAFETY PLAN

Waste Excavation at the San Antonio Landfill

Homewood Suites

5400 San Antonio Drive, NE

Albuquerque, New Mexico



ORIGINAL

Effective Date: July 2017

NOTE: THIS IS A MULTI-PAGE DOCUMENT

AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	DATE	INSPECTOR'S	DATE	NO.	BY	DATE		NO.	BY	DATE		NO.	DATE	REVISIONS	DESIGN
														DESIGNED BY	BORDENAVE DESIGNS
														DRAWN BY	METO
														CHECKED BY	JUB
														DATE	02/18
														DATE	02/18
														DATE	02/18

Actual excavation Procedures for Homewood Suites Remodel and Addition

The excavation area outlined in the Waste excavation plan will be excavated as follows:

The landfill cap will be removed and stored on site for later use

The trash area will be excavated down to the existing storm drain

The storm drain will be removed from the excavation area

A temporary catch basin will be created adjacent to the excavation area

A temporary pump and conveyance channel daylighting at the current west run down into the Pino Arroyo will be built to handle any discharge from the existing remaining storm drain.

Trash excavation will then be completed, with the area immediately below the proposed storm drain alignment free of trash

Back fill up to the level of the new storm drain will be done

Placement of the new storm drain manholes and piping will then be done

Backfill will continue until all the excavation area is up to final grade

Please see the Waste Excavation Plan and the Landfill Gas Mitigation Plan for technical details associated with the above work sequence description.

Mountain West Lodging

dba Homewood Suites

NALE-17-030-16-475


WASTE EXCAVATION PLAN

HOMEWOOD SUITES

5400 SAN ANTONIO DRIVE NE

ALBUQUERQUE, NEW MEXICO 87109

August 2017



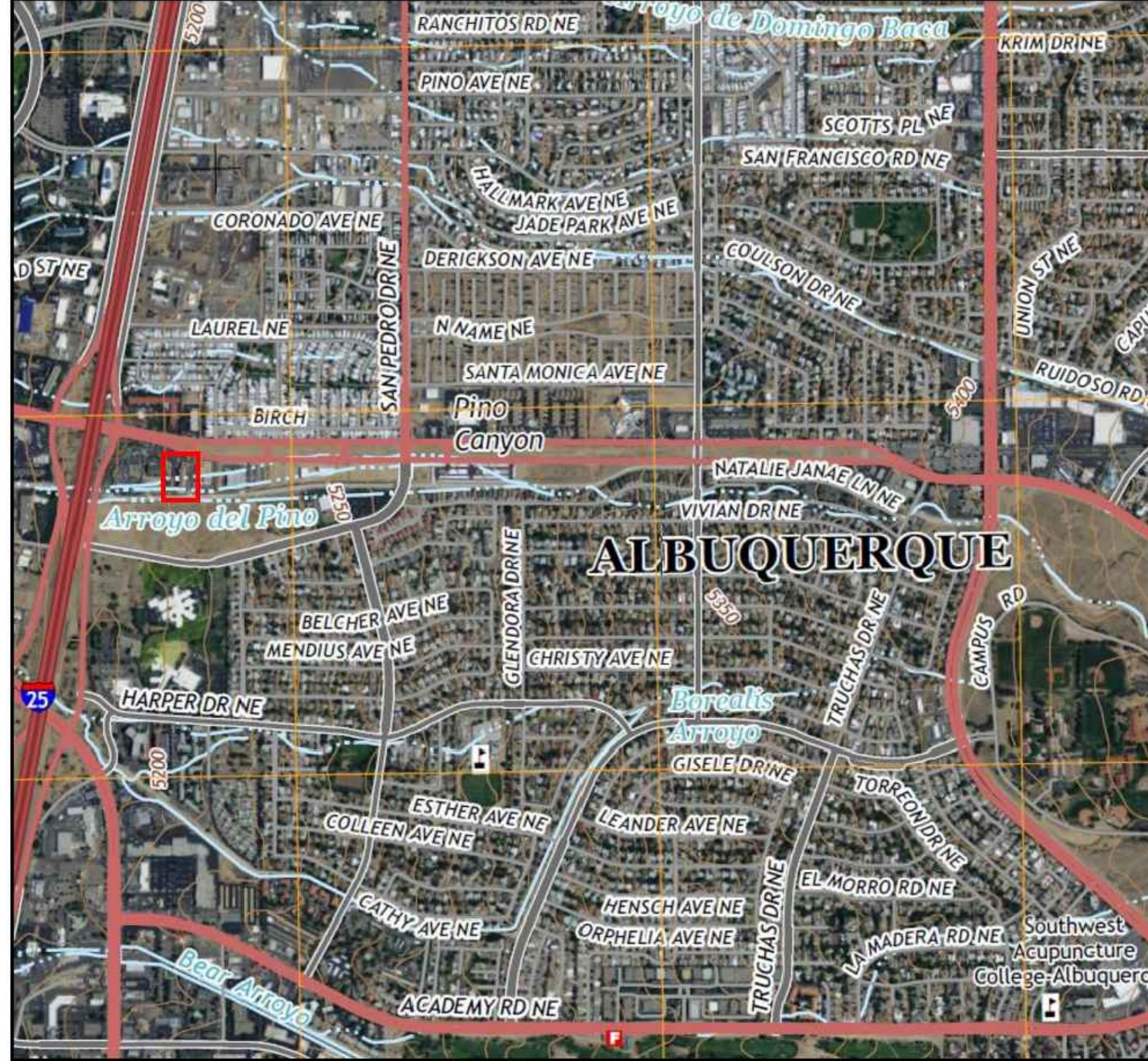
1720 Louisiana Blvd., NE

Suite 308

Albuquerque, NM 87110

505.266.2493 (w)


505.266.2803 (f)



Legend

Project Boundary

Source: USGS Topographic Map Alameda, New Mexico 2013



Site Location Map

5400 San Antonio Drive NE,

Albuquerque, Bernalillo County,

NM 87109

Project No.: NALE-17-030

(Task 1)

Date: 7-21-2017

Appendix: A-1

CITY OF ALBUQUERQUE

TITLE

HOMWOOD SUITES

FOR INFORMATION ONLY (WASTE)

DESIGN REVIEW

ENGINEER APPROVAL

MO/DAY/YEAR

MO/DAY/YEAR

PROJECT NO.

735186

ZONE MAP NO.

E-18

SHEET

7

OF

10

