CITY OF ALBUC PUBLIC SCH

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CONSTRUCTIO FOR

MANZANO HIG PORTABLE RE 12200 LOMAS ALBUQUERQUE

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G-002	GENERAL NOTE
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C-102	GRADING AND D
C-103	TRAFFIC CIRCUL
C-104	UTILITY PLAN
C-501	SITE DETAILS
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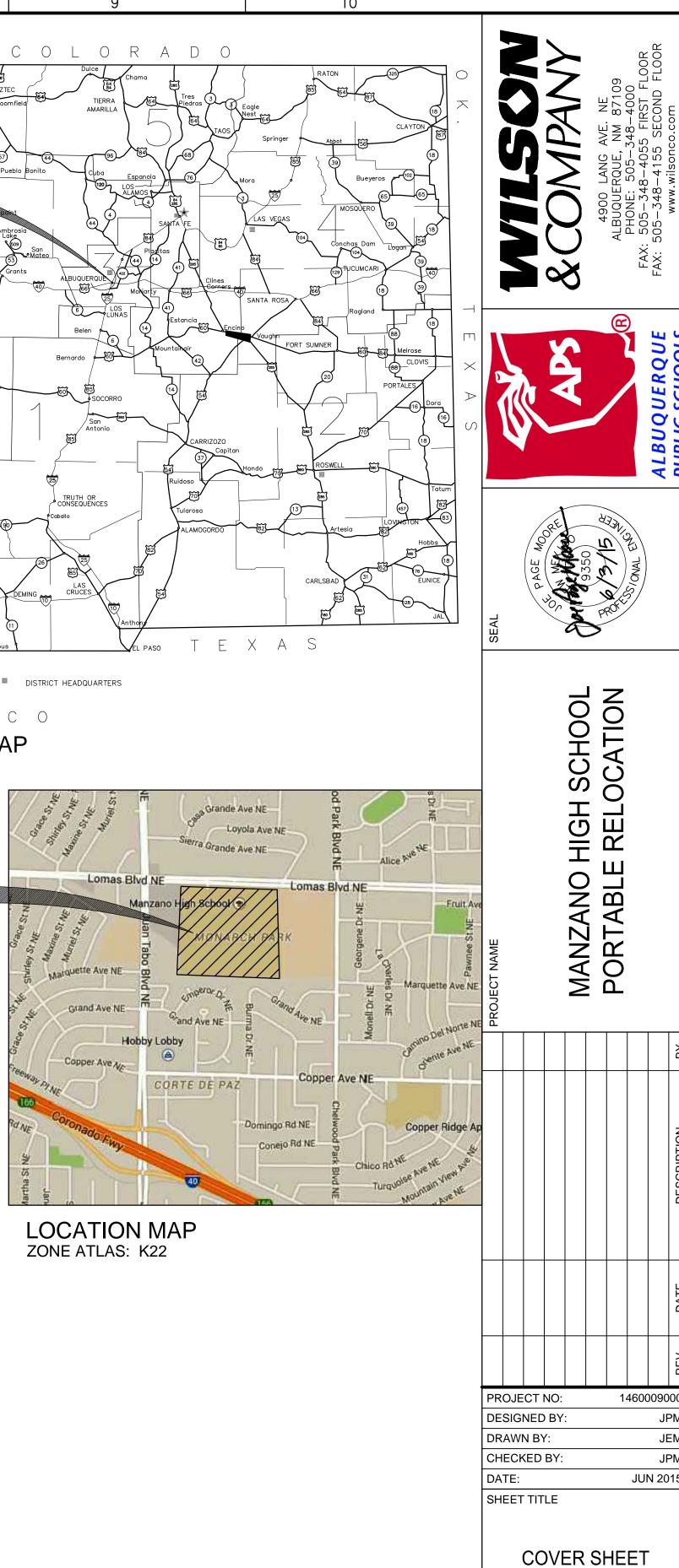
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SHEET NO:

G-001

GENERAL NOTES: 1. ALL IMPROVEMENTS, UNLESS OTHERWISE MODIFIED IN THE PROJECT SPECIFICATIONS, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION, EXCEPT WHERE OTHERWISE NOTED IN THE DRAWINGS. THIS PROJECT SHALL BE PAID ON A LUMP SUM BASES FOR THE BASE BID AND EACH ACCEPTED ADDITIVE ALTERNATIVE, RESPECTIVELY. EXCEPTION TO THE "MEASUREMENT AND PAYMENT " IS HEREBY MADE. 2. STANDARD DRAWINGS: REFER TO STANDARD DRAWINGS FOR THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION UNLESS OTHERWISE NOTED. 3. THE CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF PROJECT CONSTRUCTION, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY. REAL OR ALLEGED. IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER. 4. NO CHANGES SHALL BE MADE TO THESE PLANS WITHOUT THE BY FD&C. WRITTEN APPROVAL OF THE OWNER, ENGINEER AND ALL APPROVAL SIGNATORIES. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION METHODS OR TECHNIQUES OR FOR THE PROSECUTION OF THE WORK AS SHOWN ON THESE PLANS. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS OR OTHER PERSONS PERFORMING ANY OF THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH CONTRACT DOCUMENTS. 5. UNLESS OTHERWISE PROVIDED AS PART OF THE CONSTRUCTION PLANS, A COMPLETE PEDESTRIAN CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR WHEN ANY PORTION AGENCIES. OF THE WORK IS AFFECTING ON-SITE VEHICLE OR PEDESTRIAN CIRCULATION. ALL CONSTRUCTION SIGNING, BARRICADING AND CHANNELIZATION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION. THE PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL FOR ON-SITE CONSTRUCTION. 6. THE CONTRACTOR SHALL DESIGNATE AT LEAST ONE EMERGENCY CONTACT PERSON, AND SHALL PROVIDE TELEPHONE NUMBERS WHERE THIS PERSON CAN BE CONTACTED AT ANY TIME, INCLUDING WEEKENDS, HOLIDAYS AND AFTER HOURS. THIS INFORMATION SHALL BE PROVIDED TO THE OWNER AND THE ENGINEER. 7. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS FROM ALL JURISDICTIONAL AUTHORITIES PRIOR TO START OF CONSTRUCTION. PERMIT COSTS ARE INCIDENTAL TO BASE BID. 8. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY, HEALTH, AND ENVIRONMENTAL PROTECTION. 9. EXISTING SITE IMPROVEMENTS WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REQUIRED. REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. REPAIRS SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION OF THE REPAIRS. REPAIRS SHALL BE ACCEPTED BY THE OWNER PRIOR TO FINAL PAYMENT. 10. THE CONTRACTOR SHALL USE THE DESIGNATED STAGING AREAS FOR STORAGE OF EQUIPMENT AND MATERIAL. NO MATERIAL OR EQUIPMENT MAY BE STORED OR LEFT ON-SITE AT ANY OTHER LOCATION. THE OWNER ASSUMES NO LIABILITY FOR CONTRACTOR'S EQUIPMENT AND MATERIAL IN THE STAGING AREA. SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IF NO STAGING AREA IS DESIGNATED ON THESE PLANS, AN BID. OFF-SITE STAGING AREA SHALL BE PROVIDED AT THE CONTRACTOR'S EXPENSE. OR THE CONTRACTOR MAY NEGOTIATE WITH THE OWNER TO USE AN ON-SITE AREA. 11. ALL STATIONING REFERS TO THE CENTERLINE OF CONSTRUCTION UNLESS OTHERWISE NOTED. STATIONING OF CHANNELS OR PIPES IN DRAINAGE EASEMENTS REFERS TO THE CENTERLINE OF CHANNEL OR PIPE, UNLESS OTHERWISE NOTED. 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING, IN ADVANCE OF HIS/HER CONSTRUCTION OPERATIONS, IF OVERHEAD UTILITY LINES, SUPPORT STRUCTURES, POLES, GUYS, ETC. ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTION IS EVIDENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY OWNER TO REMOVE OR SUPPORT THE UTILITY OBSTRUCTION. ANY COST ASSOCIATED WITH THIS EFFORT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. 1-(505)-827-9329.

13. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UNDERGROUND UTILITY CONFLICTS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

14. UTILITY ALLOWANCE CONTRACTOR SHALL INCLUDE A UTILITY ALLOWANCE OF \$ 10,000 AS PART OF THE BASE BID. UTILITY ALLOWANCE IS INTENDED TO COVER THAT WORK WHICH IS NOT KNOWN DUE TO COVERED AND UNFORESEEN UNDERGROUND UTILITY CONFLICTS. CONTRACTOR SHALL BE REQUIRED TO PROVIDE A DETAILED SCOPE OF WORK AND COST FOR REVIEW BY OWNERS REPRESENTATIVE PRIOR TO PROCEEDING. PROVISIONS OF ALLOWANCE DOES NOT GUARANTEE FULL AMOUNT TO CONTRACTOR. ONLY THAT PORTION OF MONEY USED FOR INTENDED PURPOSES WILL BE EXPENDED.

15. <u>AS-BUILTS:</u> CONTRACTOR SHALL DELIVER FINAL CERTIFIED AS-BUILTS IN HARD COPY AND ACAD R2005 OR BETTER. AS-BUILTS SHALL BE SUBMITTED WITH SUBSTANTIAL COMPLETION PAY APPLICATION. FINAL PAYMENT WILL NOT BE MADE WITHOUT AS-BUILT SUBMITTAL.

16. TO SCHEDULE ALL LINE SPOTTING FOR FD&C CONSTRUCTION PROJECTS, PLEASE CONTACT PABLO RAEL AT ABASTO UTILITY LOCATING COMPANY (505) 889-3341. M&O WILL NO LONGER BE DOING LINE SPOTTING FOR CONSTRUCTION PROJECTS HANDLED

EROSION CONTROL/ENVIRONMENTAL PROTECTION/STORM WATER POLLUTION PREVENTION PLAN:

1. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST AND EROSION CONTROL REGULATIONS. THE CONTRACTOR SHALL PREPARE AND OBTAIN ANY NECESSARY DUST OR EROSION CONTROL PERMITS FROM REGULATORY

2. THE CONTRACTOR SHALL PROMPTLY REMOVE ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY TO KEEP IT FROM WASHING OFF THE PROJECT SITE.

3. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO OTHER PROPERTY BY CONSTRUCTING TEMPORARY EROSION CONTROL BERMS OR INSTALLING SILT FENCES AT THE PROPERTY LINES AS INDICATED ON THE STORM WATER POLLUTION PREVENTION PLAN.

4. THE CONTRACTOR SHALL MITIGATE EROSION OF TEMPORARY OR PERMANENT DIRT SWALES BY INSTALLING CHECK DAMS IN THE SWALES PERPENDICULAR TO THE DIRECTION OF FLOW, AND AT INTERVALS SPECIFIED ON THE STORM WATER POLLUTION PREVENTION PLAN.

5. THE CONTRACTOR SHALL MOISTEN THE SOIL AS NEEDED TO KEEP IT FROM BLOWING, WATERING, AS REQUIRED FOR CONSTRUCTION AND DUST CONTROL, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO MEASUREMENT OR PAYMENT SHALL BE MADE THEREFOR. CONSTRUCTION AREAS SHALL BE WATERED FOR DUST CONTROL IN COMPLIANCE WITH GOVERNMENT ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SUPPLYING WATER AS

6. ANY AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY LANDSCAPING OR ANY IMPERVIOUS SURFACE SHALL BE REVEGETATED WITH NATIVE GRASS SEEDING. WHEN CONSTRUCTION ACTIVITIES CEASE AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME WITHIN 21 DAYS, STABILIZATION MEASURES MUST BE INITIATED. UNLESS INDICATED OTHERWISE ON THESE PLANS OR ON THE LANDSCAPING PLAN, NATIVE GRASS SEEDING SHALL BE CLASS A SEEDING PER SECTION 1011 AND 1012 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. COST IS INCIDENTAL TO BASE

7. ALL WASTE PRODUCTS FROM THE CONSTRUCTION SITE. INCLUDING ITEMS DESIGNATED FOR REMOVAL, CONSTRUCTION WASTE, CONSTRUCTION EQUIPMENT WASTE PRODUCTS (OIL, GAS, TIRES, ETC.) GARBAGE, GRUBBING, EXCESS CUT MATERIAL VEGETATIVE DEBRIS, ETC. SHALL BE APPROPRIATELY DISPOSED OF OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMITS REQUIRED FOR HAUL OR DISPOSAL OF WASTE PRODUCTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WASTE DISPOSAL SITE COMPLIES WITH GOVERNMENT REGULATIONS REGARDING THE ENVIRONMENT, ENDANGERED SPECIES AND ARCHAEOLOGICAL RESOURCES.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP AND REPORTING OF SPILLS OF HAZARDOUS MATERIALS ASSOCIATED WITH THE CONSTRUCTION SITE. HAZARDOUS MATERIALS INCLUDE GASOLINE, DIESEL FUEL, MOTOR OIL SOLVENTS, CHEMICALS, PAINTS, ETC. WHICH MAY BE A THREAT TO THE ENVIRONMENT. THE CONTRACTOR SHALL REPORT THE DISCOVERY OF PAST OR PRESENT SPILLS TO THE NEW MEXICO ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE AT

9. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING SURFACE AND UNDERGROUND WATER. CONTACT WITH SURFACE 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.

10. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING CONSTRUCTION NOISE AND HOURS OF OPERATION.

11. WHERE STORM INLETS ARE SUSCEPTIBLE TO IN FLOW OF SILT OR DEBRIS FROM CONSTRUCTION ACTIVITIES, PROTECTION SHALL BE INSTALLED ON THEIR UPSTREAM SIDE.

ROADS:

1. ALL UNDERGROUND UTILITIES SHALL BE INSTALLED PRIOR TO SURFACING OF THE STREETS. ALL WATER VALVE BOXES AND ELECTRICAL, TELEPHONE, TELEVISION AND SEWER MANHOLES IN THE CONSTRUCTION AREA SHALL BE ADJUSTED TO FINISH GRADE.

2. ALL PERMANENT SIGNS, BARRICADES, CHANNELIZATION DEVICES, PAVEMENT MARKINGS, SIGN FRAMES AND ERECTION OF SUCH DEVICES SHALL CONFORM TO THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" LATEST EDITION.

3. ALL STREET STRIPING ALTERED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR TO MATCH THE ORIGINAL CONDITIONS (I.E. TYPE, SPACING) AT THE LOCATION PRIOR TO CONSTRUCTION, OR AS SHOWN IN THIS PLAN SET.

4. STREET GRADES SHALL BE RESTORED BY THE CONTRACTOR TO THE EXISTING GRADES UNLESS OTHERWISE DIRECTED BY THE ENGINEER. SMOOTH TRANSITIONS SHALL BE MADE BETWEEN EXISTING PAVEMENT WHICH REMAINS IN PLACE AND PAVEMENT WHICH IS REPLACED. WHEN ABUTTING NEW PAVEMENT TO EXISTING, SAWCUT BACK EXISTING PAVEMENT TO A NEAT, STRAIGHT LINE AS REQUIRED TO REMOVE ANY BROKEN OR CRACKED PAVEMENT.

5. A STREET CUT PERMIT MUST BE ACQUIRED FROM, AND TRAFFIC CONTROL PLAN APPROVED BY, THE ABCWUA PRIOR TO CONSTRUCTION.

6. ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY ABCWUA

UTILITIES-GENERAL NOTE:

1. IF ANY UTILITY LINES, PIPELINES OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS. THEY ARE SHOWN IN AN APPROXIMATE LOCATION ONLY, AND LINES MAY EXIST WHERE NONE ARE SHOWN. THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE UTILITY OWNER OR FROM EXISTING PLANS, AND THIS INFORMATION MAY BE INCOMPLETE, OR OBSOLETE AT THE TIME OF CONSTRUCTION. THE ENGINEER HAS NOT UNDERTAKEN ANY FIELD VERIFICATION OF THESE LOCATIONS, LINE SIZES OR MATERIAL TYPE, MAKES NO REPRESENTATION THERETO, AND ASSUMES NO RESPONSIBILITY ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE OR UNDERGROUND INSTALLATION IN OR NEAR THE AREA IN ADVANCE OF ANY DURING ANY EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES AND UNDERGROUND FACILITIES. IN PLANNING AND CONDUCTING EXCAVATIONS. THE CONTRACTOR SHALL COMPLY WITH ALL STATE STATUES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.

2. THE CONTRACTOR SHALL NOTIFY NEW MEXICO ONE CALL, INC. AT 260-1990 AT LEAST TWO WORKING DAYS PRIOR TO STARTING WORK ON THIS PROJECT.

3. SEWER/WATER LINES SHALL BE PLACED IN SEPARATE TRENCHES A DISTANCE OF 15 FEET TYPICALLY OR A MINIMUM OF 10 FEET APART HORIZONTALLY. THE WATER LINE SHALL BE PLACED A MINIMUM OF 1.5 FEET HIGHER IN ELEVATION THAN THE SEWER. AT ALL CROSSINGS OF WATER AND SEWER LINES, THE WATER LINE SHALL BE MINIMUM OF 1.5 HIGHER THAN THE SEWER OR THE SEWER LINE SHALL BE C-900 PRESSURIZED PIPE.

4. SEWER & WATER LINE DISTANCES SHOWN IN PLANS ARE HORIZONTAL DISTANCES WITHOUT REGARD TO SLOPE OF PIPE OR PROJECT STATIONING.

WATER:

1. THE CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM THE ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY (ABCWUA) TO OPERATE ANY VALVE OR FIRE HYDRANT INCLUDING NEW WATERLINES AND EXTENSIONS TO THE WATER SYSTEM WHICH HAVE NOT YET BEEN ACCEPTED BY ARE CONNECTED TO THE EXISTING WATER SYSTEM. ONCE APPROVAL HAS BEEN VERIFIED, THE CONTRACTOR MUST CONTACT ABCWUA, 48 HOURS IN ADVANCE TO REQUEST A SHUTOFF DATE. WATER SHUT OFF MAY BE DONE AT NIGHT OR ON WEEKENDS TO ACCOMMODATE WATER CUSTOMERS.

2. WATER LINES SHALL BE CONSTRUCTED WITH A MINIMUM OF 4.0 FT. COVER MEASURED FROM FINISH GRADE TO THE TOP OF PIPE, UNLESS OTHERWISE SPECIFIED ON PLANS.

3. FOR PRESSURE WATER CONNECTIONS TO EXISTING LINES, THE CONTRACTOR SHALL NOTIFY THE ABCWUA A MINIMUM OF 48 HOURS PRIOR TO THE CONNECTION.

4. CONCRETE THRUST BLOCKS SHALL BE USED ON ALL 90 DEGREE BENDS, TEES TO HYDRANTS, BEHIND HYDRANTS AND UNDER VALVES. ALL FITTINGS AND CAPS SHALL USE MEGA LUG RESTRAINTS. NO EXTRA PAYMENT WILL BE MADE FOR THESE FEATURES.

5. COMPRESSION JOINTS MAY BE USED ON COPPER SERVICE LINES EXCEPT FLARED JOINTS SHALL BE USED WHEN CONNECTING TO PLASTIC LINES.

6. THE 24" DEPTH OF SERVICE LINE BELOW FINISH SURFACE ELEVATION OF METER BOXES IS CRITICAL. METERS WILL NOT BE INSTALLED WHEN THIS DIMENSION VARIES.

7. VALVE BOXES SHALL BE BROUGHT TO SURFACE ELEVATION UPON COMPLETION OF SURFACE COURSE OF PAVEMENT. OCTAGONAL CONCRETE COLLARS SHALL BE CONSTRUCTED TO SURFACE ELEVATIONS.

8. FLUSHING OF WATER LINES SHALL BE METERED. ORDER OF PREFERENCE FOR DISPOSAL IS (1) ON AVAILABLE LAND SURFACE (2) IN STORM SEWERS OR (3) IN SANITARY SEWERS. DISPOSAL METHOD SHALL BE DISCUSSED WITH INSPECTOR.

9. FLUSHING, DISINFECTING AND TESTING OF WATERLINES SHALL BE COORDINATED WITH ABCWUA UTILITY INSPECTOR.

10. 8" PVC WATERLINE SHALL BE CLASS C900 DR-18.

SEWER:

1. SEWER SERVICE LOCATION, SIZE, SLOPE AND MATERIAL TYPE SHALL BE VERIFIED BY CONTRACTOR.

2. 30 DAYS FOLLOWING INSTALLATION AND BACKFILL OF SEWER LINES, A DEFLECTION TEST USING A HAND PULLED MANDREL SHALL BE PERFORMED IN THE PRESENCE OF THE INSPECTOR.

3. AIR TESTING OF SEWER LINES SHALL BE CONDUCTED IN THE PRESENCE OF INSPECTOR.

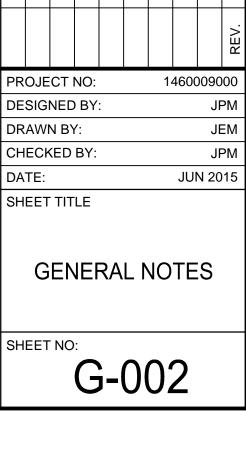
UTILITY CONTACTS

COMPANY	PHONE	MOBILE	CONTACT
ABCWUA	768-2729		NANCY MUSINSKI
PNM - ELECTRIC	241-3421		ART CHAVEZ
PNM - GAS	241-7771		JOE DUNLOP
QWEST	245-8530		ROSA KNIFFIN
COMCAST	761-6235		ROBERT MARTINEZ
NM ONE CALL	260-1990		N/A

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LEGEN	ID: EXISTING FEATURES	5	
<u> </u>	UTILITY, SANITARY MANHOLE	_	
co	UTILITY, SANITARY CLEANOUT		
	UTILITY, WATER MANHOLE		
W	UTILITY, WATER METER		A A A A A A A A A A A A A A A A A A A
⊗ E	UTILITY, WATER VALVE		
© RD	UTILITY, ROOF DRAIN		
CB	UTILITY, CATCH BASIN		
SCB	UTILITY, SPRINKLER CONTROL BOX		
\bigcap	UTILITY, VENT PIPE		
\square	UTILITY, TELEPHONE MANHOLE		
O PI	□ ELECTRICAL, POWER POLE		
	ELEVATION INDICATOR, FINISH		R
C P	CONTROL POINT		
	PANEL POINT		
	ELECTRIC LINE, OVERHEAD		
	ELECTRIC LINE, UNDERGROUND		
	GAS LINE		
W	WATER LINE		
-00	CHAINLINK FENCE		
	CHAINLINK FENCE		
	ELECTRICAL, JUNCTION BOX		ON LO CINE
CB	DRAINAGE, CATCH BASIN, ROUND		لها (🔨 25 🎝) آثا
G∨	GAS VALVE		EAL
⊗ RD	ROOF DRAIN		THE PROF
Ĩ	WATER FAUCET		SEAL
-	TREE, STUMP		
	PICNIC TABLE		SP
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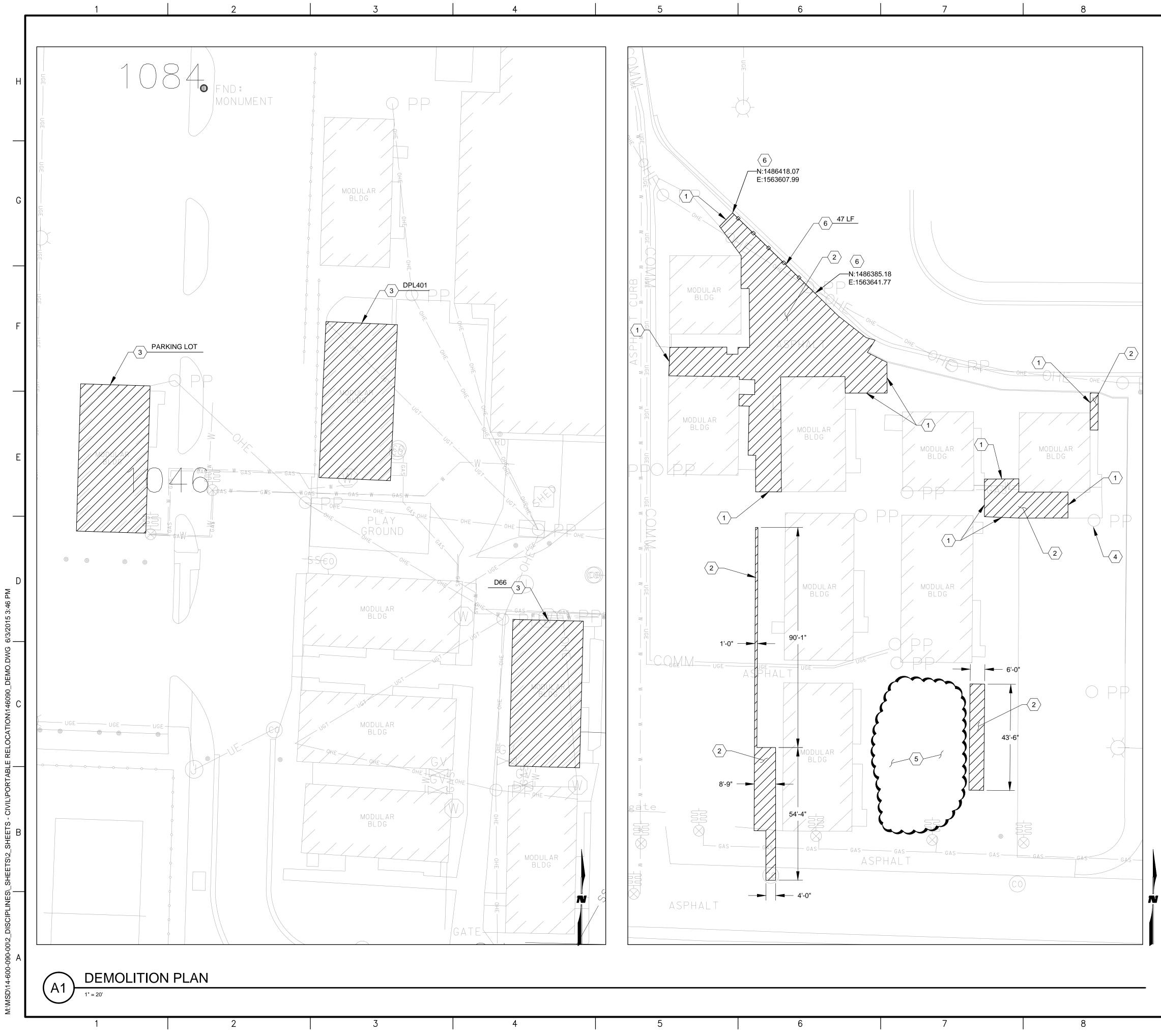
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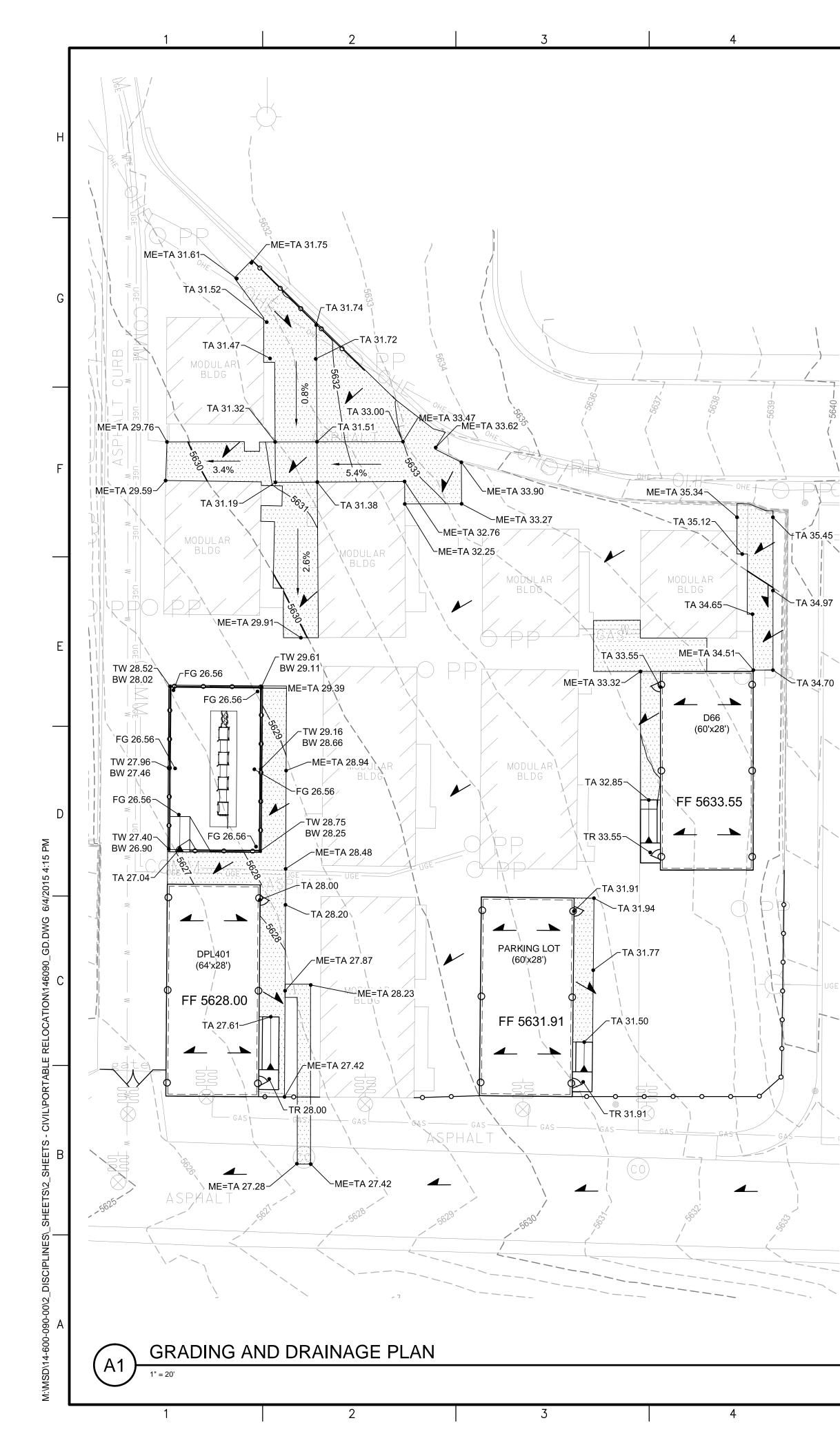


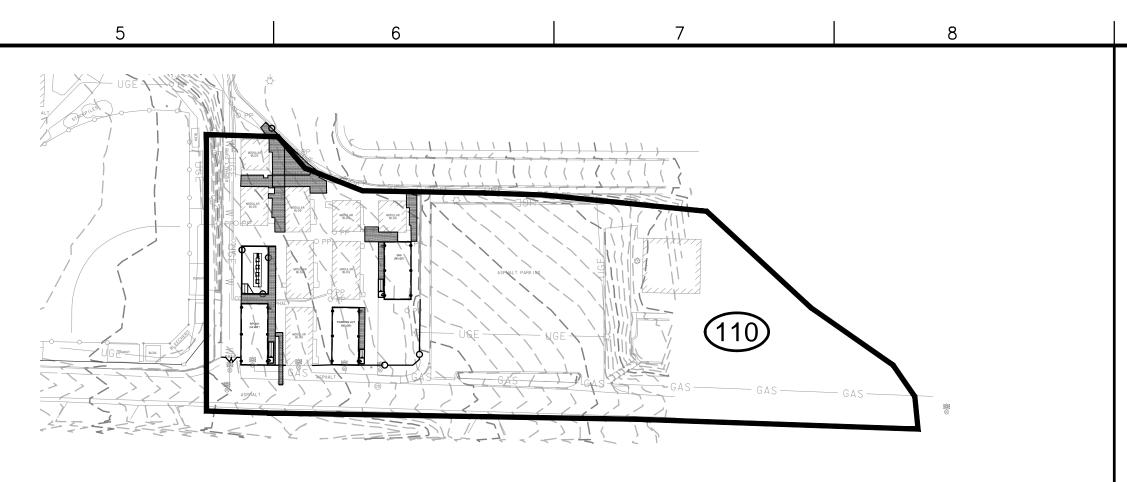
- 1. SAWCUT NEAT LINE.
- 2. REMOVE AND DISPOSE ASPHALT.
- 3. RELOCATE EXISTING PORTABLE. ATTACHED STAIRS AND RAMPS (AS APPLICABLE) WILL NOT BE USED FOR THIS PROJECT.
- 4. RELOCATE EXISTING POWER POLE.
- 5. REMOVE AND DISPOSE CONCRETE PIERS.
- 6. REMOVE AND SALVAGE EXISTING CHAIN LINK FENCE.



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 \diamond \checkmark FA) *S* 3 ALBUQ HIGH SCHOOL E RELOCATION MANZANO H PORTABLE I PROJECT NO: 1460009000 DESIGNED BY: JPM DRAWN BY: JEM CHECKED BY: JPM JUN 2015 DATE: SHEET TITLE DEMOLITION PLAN SHEET NO:





BASIN MAP G5)

Introduction and Project Description:

Manzano High School is located at 12200 Lomas Blvd NE in Albuquerque New Mexico, east of the intersection of Lomas and Juan Tabo. The proposed site is located southwest of Wilson Stadium and just east of the existing softball field. The goal of this project is to add temporary portables to the campus.

The drainage concept for this project follows the assumptions made in the Drainage Master Plan submitted by Wilson & Company, Inc., Engineers & Architects December 2008. The Approved report accounted for multiple portables within the basin. Some of the portables shown in the approved report have since been removed or relocated. No additional runoff is expected to result from the addition of the proposed portables.

As shown by panel 359 of the national flood insurance program flood insurance rate maps published by FEMA for Bernalillo County, New Mexico, the site does not lie within a hazard zone.

Methodology:

Section 22.2 of the City of Albuquerque DPM was utilized to calculate design flows. The procedure for 40 acre and smaller basins was used. The 100-year, 6-hour storm event was computed for the existing and proposed conditions. The site is located in Zone 4 as designated in Table A-1 of the DPM. Reference the approved 2008 Drainage Master Plan for basin delineations.

Existing Conditions:

The current project area is a combination of asphalt paving and exposed dirt footprints. The site is contained within Basin 110. See Table 1 for the existing hydrologic conditions. Per the approved Drainage Master Plan Basin 110 currently discharges to an existing 9-grate type "D" inlet on the southwest corner of the campus via an access road.

Basin	Area		Land t	reatment (%	Q _{p (100)}	V ₍₁₀₀₋₆₎	V(100-6)	
Dasili	Acre	Α	A B C D				(ac-ft)	(cf)
B-110	3.53	0	0	6	94	18.21	0.7558	41,955

Table 1-Existing Hydrology

Proposed Conditions:

The project includes the addition of 3 temporary portables, re-grading of areas around the site for ADA compliance, and the addition of a playground area. See table 2 for the proposed hydrologic conditions. No additional impervious areas are added as a result of the proposed improvements. The playground area, which is recessed and filled with woodchips, is modeled using land treatment B.

Basin	Area		Land t	reatment (%	Q _{p (100)}	V ₍₁₀₀₋₆₎	V ₍₁₀₀₋₆₎	
Dasili	Acre	Α	В	С	D	(cfs)	(ac-ft)	(cf)
B-110	3.53	0	3	3	94	18.21	0.7570	42,105
Table 2-Proposed Hydrology								

CONCLUSION:

The Approved December 2008 Drainage Master Plan accounted for peak flows greater than those resulting from the proposed improvements. The drainage patterns have not been altered. No additional impervious areas have been added that had not previously been accounted for in the approved Drainage Master Plan therefore no 1st flush calculations were necessary. To take into account future development, Wilson & Company is currently working on a design that will include a detention pond with a water quality outlet that will serve as the main discharge point for the entire campus. Flows will then discharge with a peak flow rate into the city's storm drain system at a peak discharge rate identified in the Approved December 2008 Drainage Master Plan.

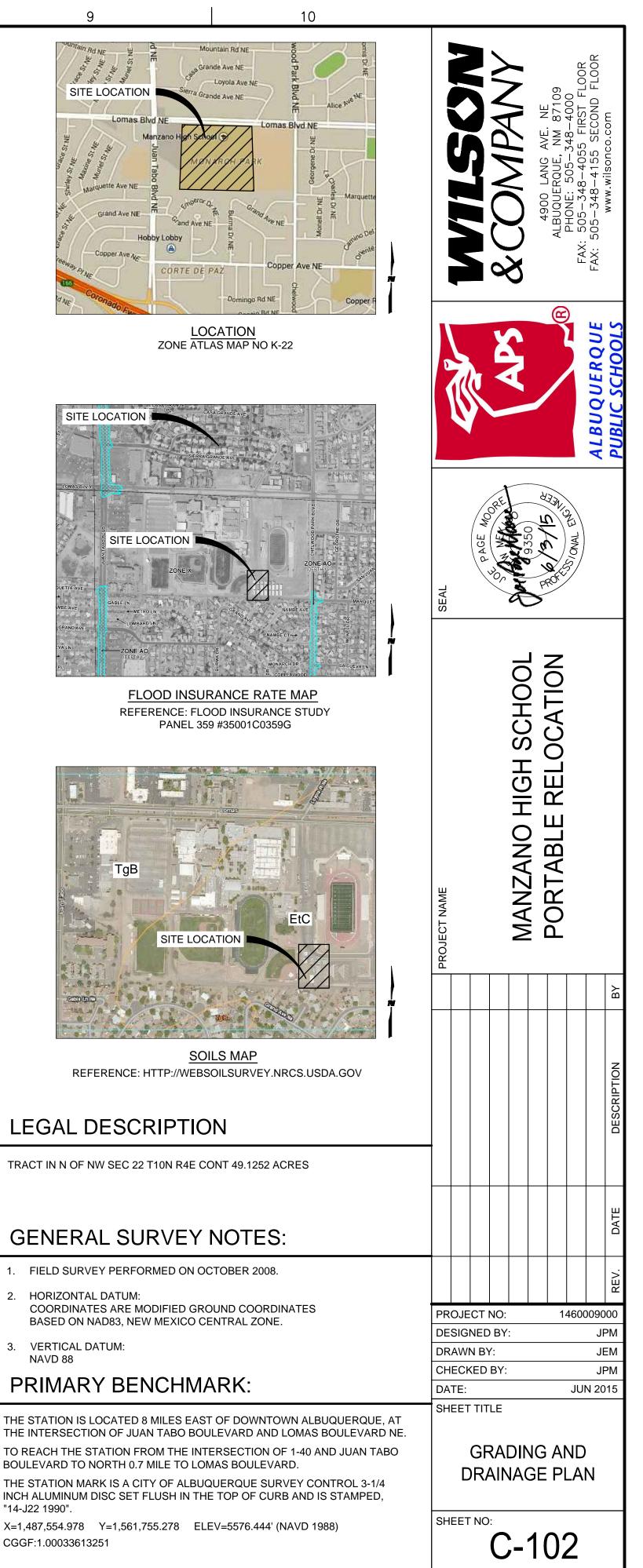
HYDROLOGY SUMMARY

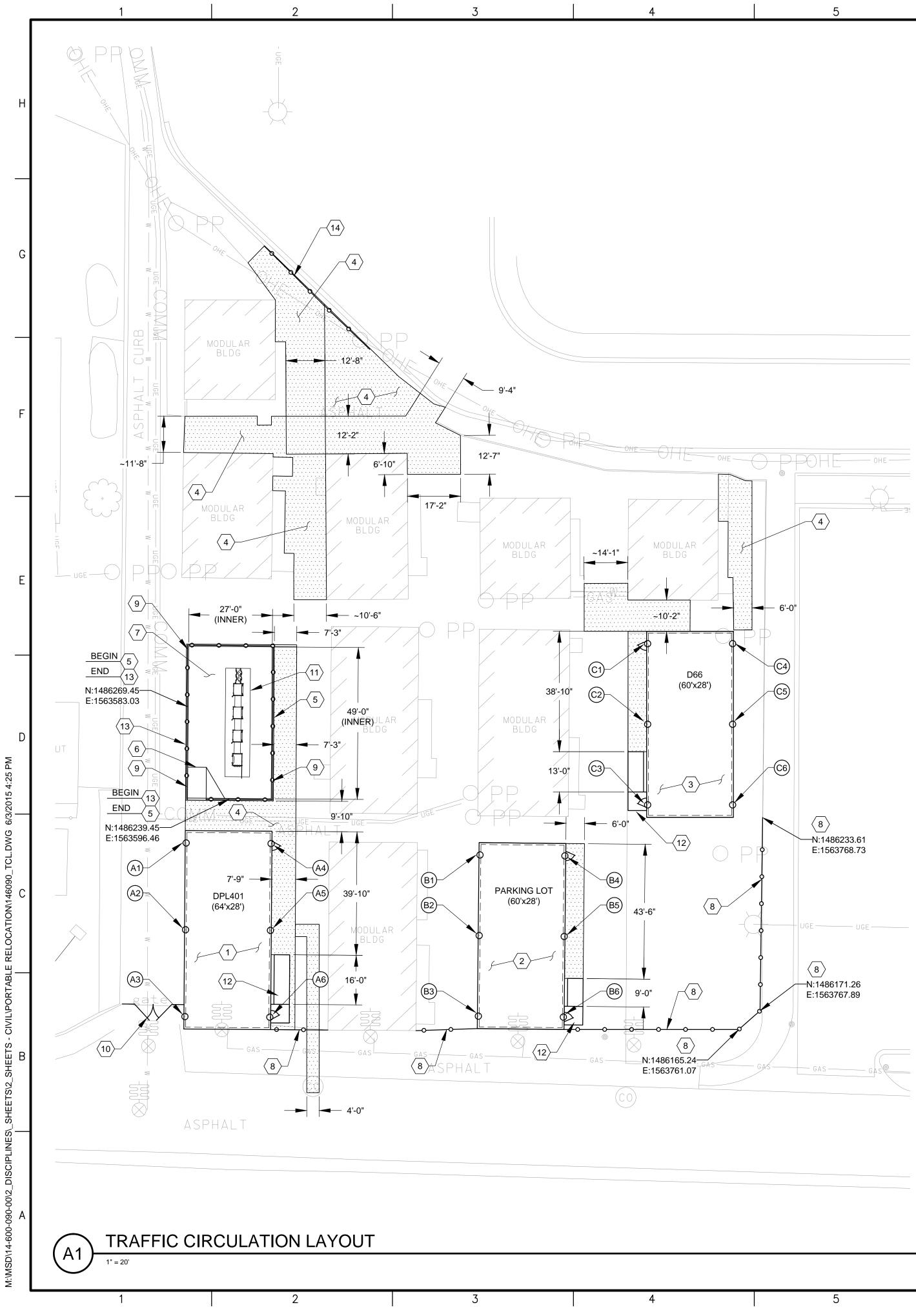
	NOLOO															
PROJECT NAME:		Manzano HS Portable Relocation							2 YEAR		10YEAR			100 YEAR		
JOB NU	MBER:	1460009000	AREA	LAN	D TRE	ATME	NTS	Q	VOLUM	E (ac.ft.)	Q	VOLUM	E (ac.ft.)	Q	VOLUM	E (ac.ft.)
BASIN	COND.	DESCRIPTION	(acres)	Α	В	С	D	(cfs)	6 HR	24 HR	(cfs)	6 HR	24 HR	(cfs)	6 HR	24 HR
B-110	Existing	Portable Site	3.5300	0.0%	0.0%	6.0%	94.0%	7.41	0.2840	0.3741	12.32	0.4802	0.6185	18.21	0.7558	0.9632
B-110	Developed	Portable Site	3.5300	0.0%	2.0%	3.0%	95.0%	7.41	0.2853	0.3762	12.31	0.4814	0.6212	18.21	0.7570	0.9666
			0.0000	0.0%	0.0%	0.0%	0.0%	0.00	0.0000	0.0000	0.00	0.0000	0.0000	0.00	0.0000	0.0000
			0.0000	0.0%	0.0%	0.0%	0.0%	0.00	0.0000	0.0000	0.00	0.0000	0.0000	0.00	0.0000	0.0000
			0.0000	0.0%	0.0%	0.0%	0.0%	0.00	0.0000	0.0000	0.00	0.0000	0.0000	0.00	0.0000	0.0000
			0.0000	0.0%	0.0%	0.0%	0.0%	0.00	0.0000	0.0000	0.00	0.0000	0.0000	0.00	0.0000	0.0000
			0.0000	0.0%	0.0%	0.0%	0.0%	0.00	0.0000	0.0000	0.00	0.0000	0.0000	0.00	0.0000	0.0000
			0.0000	0.0%	0.0%	0.0%	0.0%	0.00	0.0000	0.0000	0.00	0.0000	0.0000	0.00	0.0000	0.0000
			0.0000	0.0%	0.0%	0.0%	0.0%	0.00	0.0000	0.0000	0.00	0.0000	0.0000	0.00	0.0000	0.0000
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	INPUT DATA: PRECIP.		RA	NFALL D	EPTHS (I	NCHES)	AT 100-Y	EAR STO	ORM							
		ZONE		1 HOUR	6 HOUR	24 HOUF	4 DAY	10 DAY								
		4		2.23	2.90	3.65	4.70	5.95								

6

DRAINAGE REPORT

A5





PIER LOCATION TABLE (DPL401)							
O PIER #	NORTHING	EASTING	TOP OF PIER ELEV				
A1	1486225.40	1563582.68	5623.33				
A2	1486197.40	1563582.48	5623.33				
A3	1486169.40	1563582.28	5623.33				
A4	1486225.20	1563610.09	5623.33				
A5	1486197.21	1563609.90	5623.33				
A6	1486169.21	1563609.70	5623.33				

PIER LOCATION TABLE (PARKING LOT)

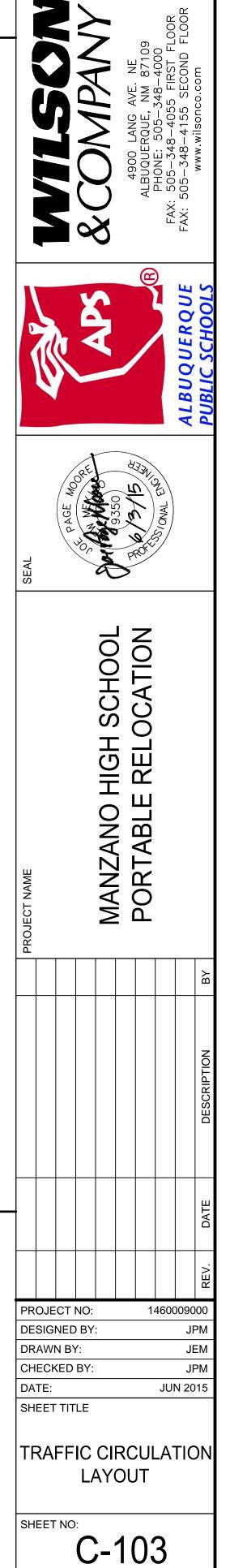
		•	
O PIER #	NORTHING	EASTING	TOP OF PIER ELEV
B1	1486221.52	1563677.51	5630.24
B2	1486195.52	1563677.25	5630.24
B3	1486169.52	1563676.99	5630.24
B4	1486221.24	1563704.93	5630.24
B5	1486195.25	1563704.66	5630.24
B6	1486169.25	1563704.40	5630.24

PIER LOCATION TABLE (D66)

O PIER #	NORTHING	EASTING	TOP OF PIER ELEV
C1	1486289.70	1563731.61	5631.88
C2	1486263.70	1563731.61	5631.88
C3	1486237.70	1563731.61	5631.88
C4	1486289.70	1563759.02	5631.88
C5	1486263.70	1563759.02	5631.88
C6	1486237.70	1563759.02	5631.88

KEYNOTES

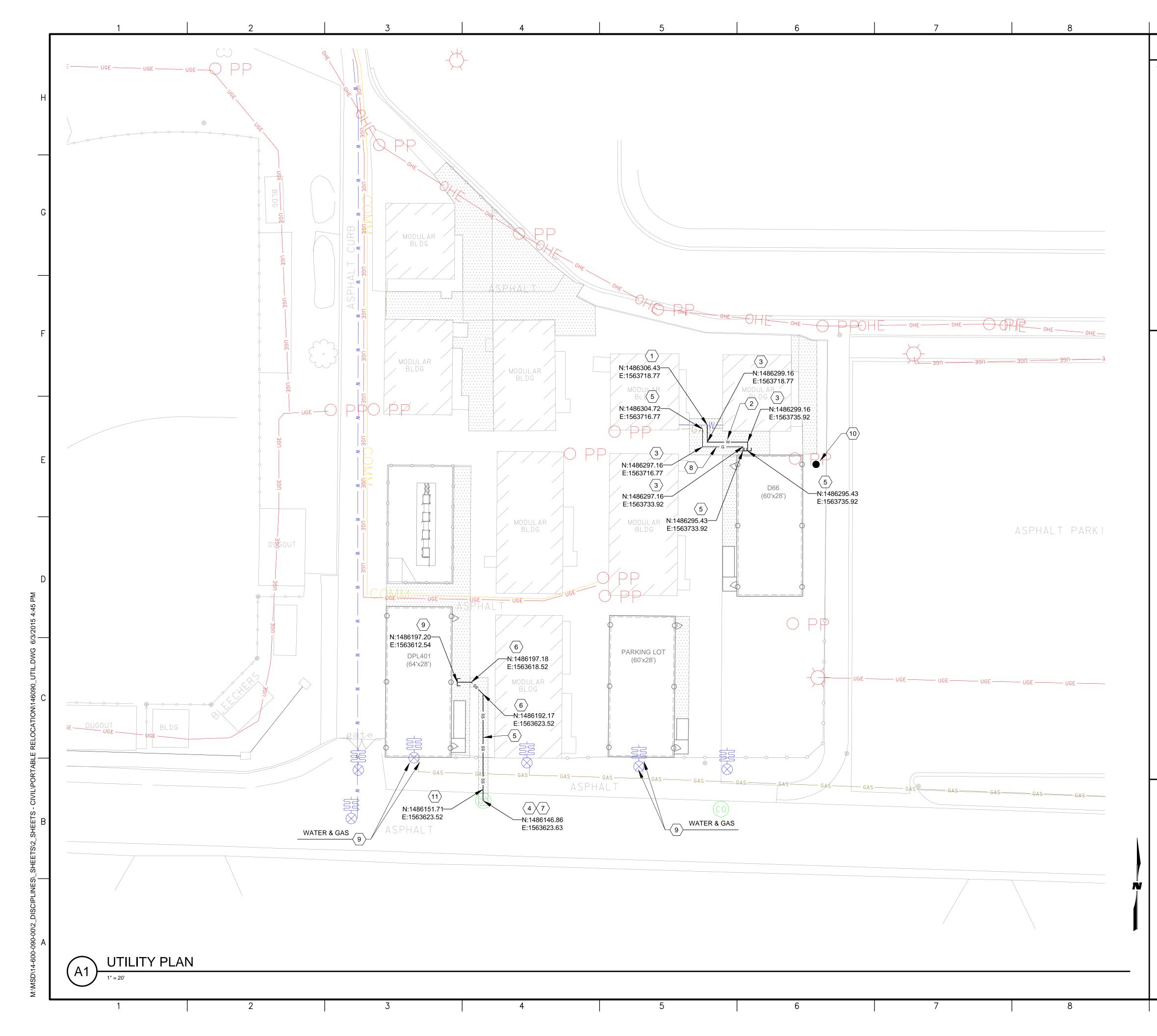
- INSTALL RELOCATED PORTABLE DPL401. 64'x28' PORTABLE; SEE DETAIL A7/C-501 FOR FOOTING LAYOUT. CONSTRUCT CONCRETE PIERS. SEE DETAIL C8/C-501.
- 2. INSTALL RELOCATED PORTABLE (FROM PARKING LOT). 60'x28' PORTABLE; SEE DETAIL A7/C-501 FOR FOOTING LAYOUT. CONSTRUCT CONCRETE PIERS. SEE DETAIL C8/C-501.
- 3. INSTALL RELOCATED PORTABLE D66. 60'x28' PORTABLE; SEE DETAIL A7/C-501 FOR FOOTING LAYOUT. CONSTRUCT CONCRETE PIERS. SEE DETAIL C8C-501.
- 4. CONSTRUCT 2" ASPHALT. SEE DETAIL G9/C-501
- 5. CONSTRUCT 8" RETAINING WALL. SEE DETAIL A7C-502.
- 6. CONSTRUCT PLAYGROUND ADA RAMP. SEE DETAIL F1/C-501.
- 7. INSTALL WOOD CHIPS. SEE DETAIL F1/C-501.
- 8. INSTALL 6'-0"H CHAIN LINK FENCE. SEE DETAIL A1/C-502.
- 9. INSTALL 4'-0" H CHAIN LINK FENCE. SEE DETAIL A1/C-502 & F2/C-502.
- 10. INSTALL 12'-0" W DOUBLE SWING CHAIN LINK GATE. SEE DETAIL A1/C-502.
- 11. RELOCATED PLAYGROUND EQUIPMENT (APPROXIMATELY 35'x8' FOOTPRINT).
- 12. CONSTRUCT CONCRETE ADA RAMP FOR PORTABLE. SEE DETAIL A1C-501. INSTALL 36"H HANDRAIL. SEE DETAIL F7C-502.
- 13. CONSTRUCT CUT-OFF WALL. SEE DETAIL G7/C-501.
- 14. REINSTALL CHAIN LINK FENCE. SEE DETAIL A1/C-502.



LEGEND

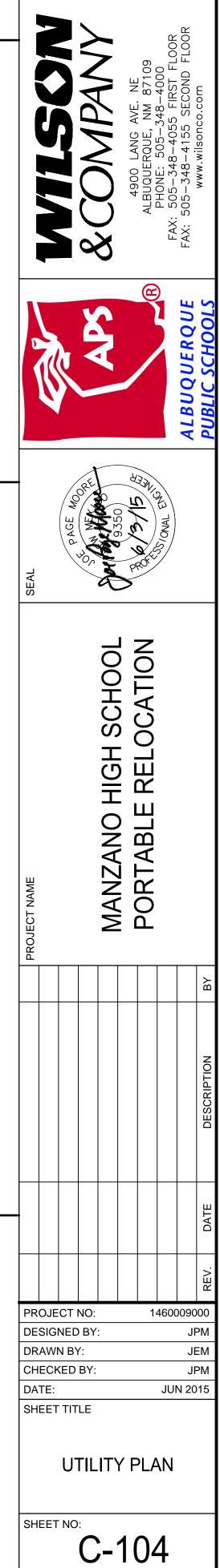
2" ASPHALT PAVEMENT

-8



GENERAL SHEET NOTES

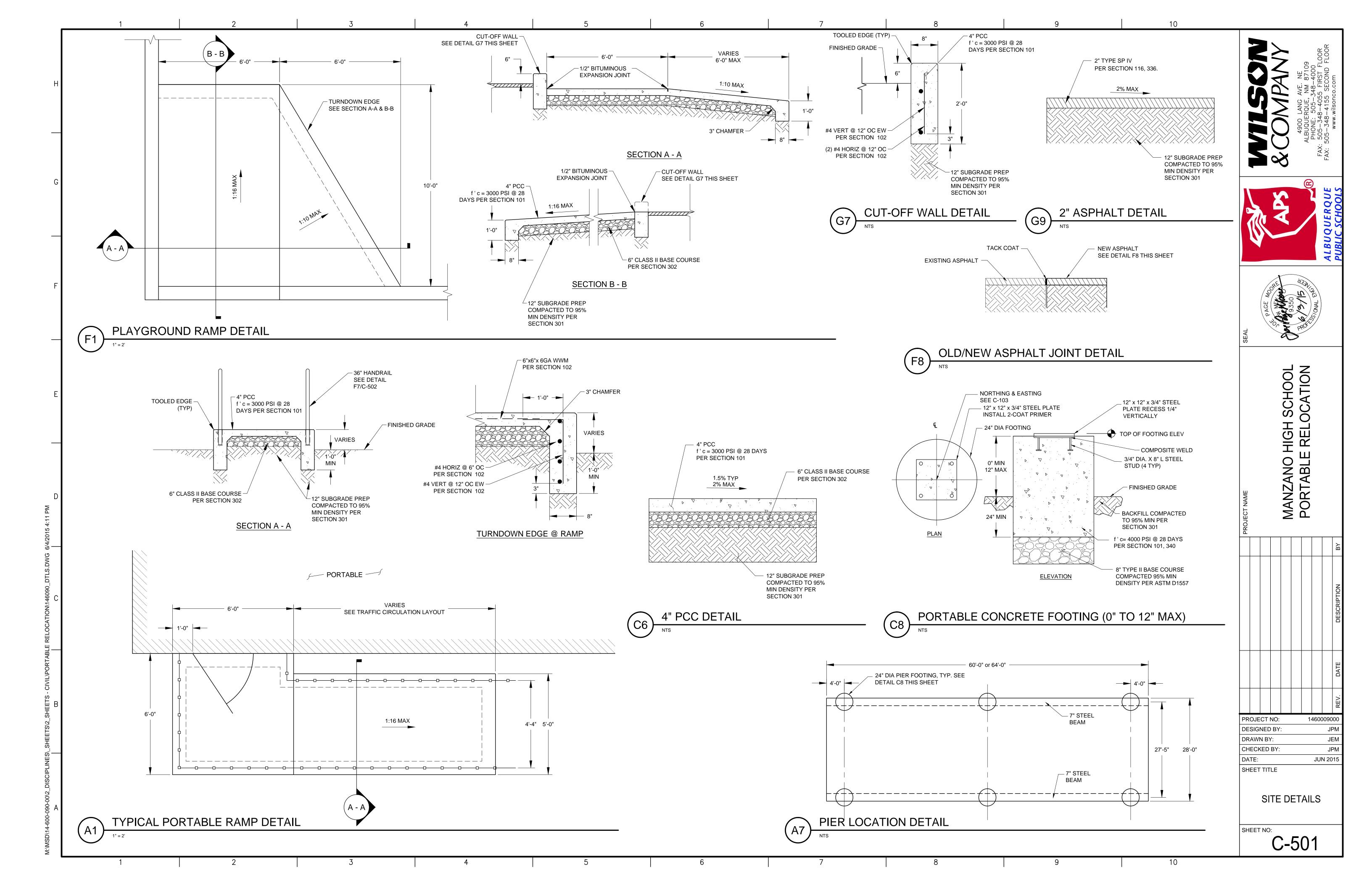
1. SEWER SERVICE LOCATION, SIZE, SLOPE AND MATERIAL TYPE SHALL BE VERIFIED BY CONTRACTOR.

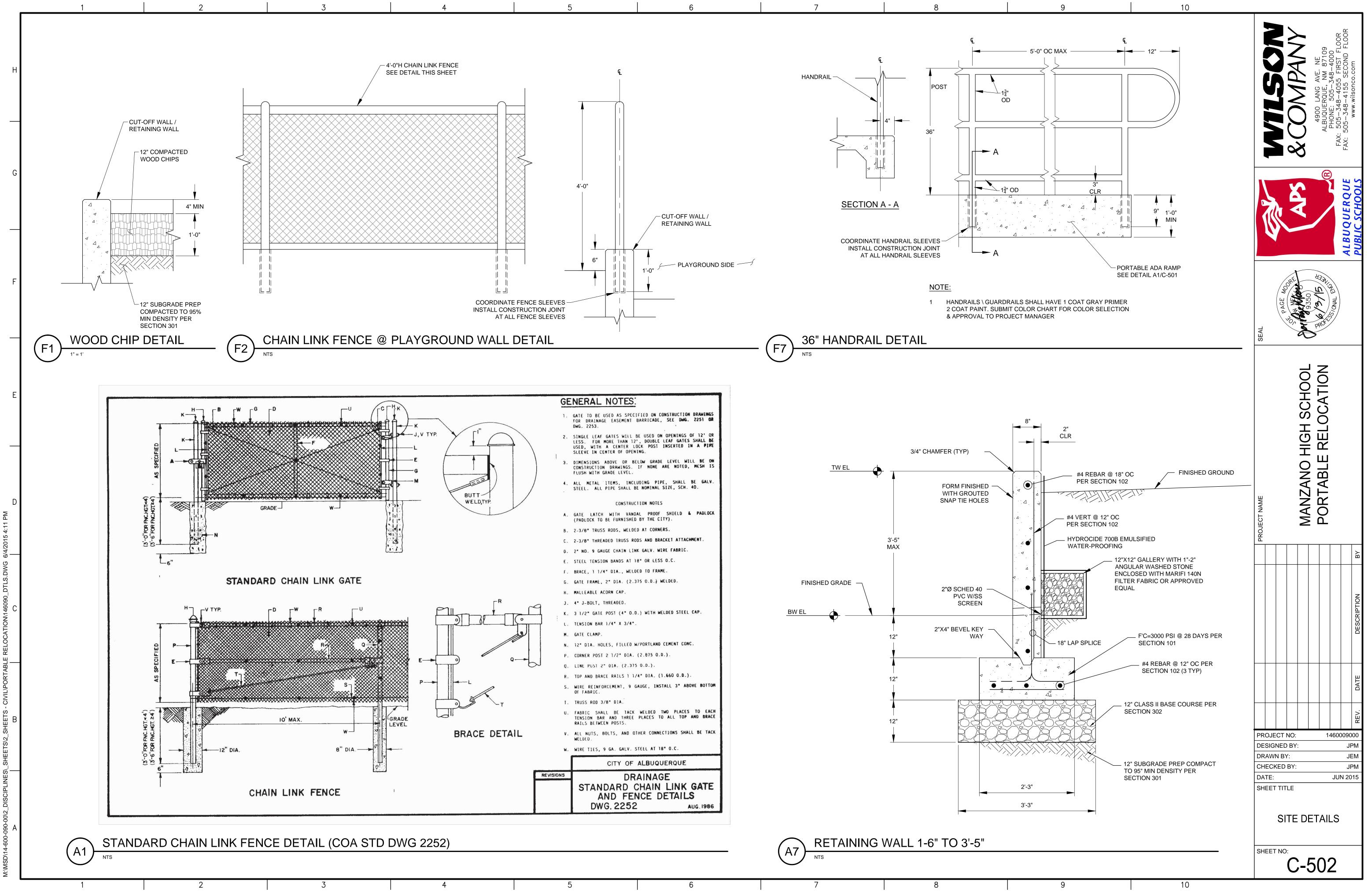


- 1. CONNECT TO EXISTING WATER LINE.
- 2. INSTALL 1.5" PVC WL.
- 3. INSTALL 1.5" 90° BEND.
- 4. CONNECT TO EXISTING SANITARY SEWER LINE.
- 5. INSTALL 4" SDR 35 PVC.
- 6. INSTALL 4" 45° BEND.
- 7. INSTALL 8"x4" WYE.
- 8. INSTALL 1.5" GAS LINE.
- 9. CONNECT UTILITY TO PORTABLE.
- 10. RELOCATED POWER POLE.
- 11. INSTALL DOUBLE CLEANOUT. SEE SHEET C-503.

LEGEND

- NOTE: 1. SEE GENERAL NOTES FOR EXISTING LEGEND
- 2. UTILITIES IN COLOR ARE EXISTING



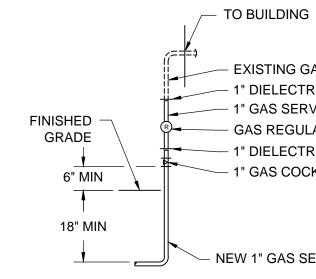


	-600-090-00\2_DISCIPLINES_	_SHEETS\2_SHEETS - CIVIL\PC	M:\MSD\14-600-090-00\2_DISCIPLINES_SHEETS\2_SHEETS - CIVIL\PORTABLE RELOCATION\146090_DTLS.DWG 6/4/2015 4:11 PM	DWG 6/4/2015 4:11 PM	E 	_	F	G	_	Н	F
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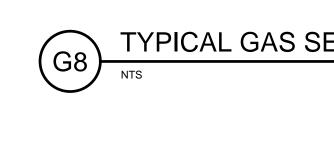
5	6	7	8

6

- 7



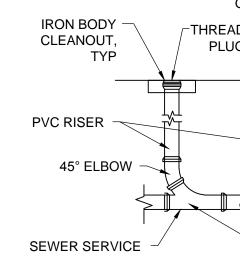
NOTE: FOR INFORM



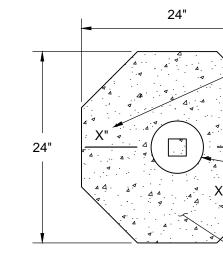
METAL "METER CA WITH LOCKA FINISHED GRADE _____

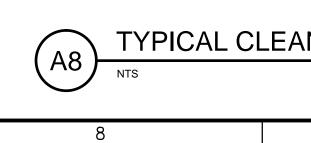












9

10

TO BUILDING EXISTING GAS PIPING 1" DIELECTRIC UNION 1" GAS SERVICE LINE, TYP GAS REGULATOR 1" DIELECTRIC UNION 1" GAS COCK NEW 1" GAS SERVICE LINE	APOO LANG AVE. NE 4900 LANG AVE. NE 4900 LANG AVE. NE 4900 LANG AVE. NE 4900 LANG AVE. NE 7425 505-348-4000 FAX: 505-348-4155 SECOND FLOOR www.wilsonco.com
NFORMATION ONLY. VERIFY WITH OWNER.	AL BUQUERQUE PUBLIC SCHOOLS
PORTABLE CLASSROOM BUILDING OCKABLE LID GRADE UGATED OPE PIPE (PEX) EING	SEAL
Initial and the second seco	PROJECT NAME MANZANO HIGH SCHOOL PORTABLE RELOCATION BY
45° WYE OUBLE CLEANOUT COLLAR ABLE CONNECTION SECTION	DESCRIPTION
TOP OF CONCRETE COLLAR SHALL BE STAMPED WITH LINE SIZE AND DIRECTION. MINIMUM LETTER SIZE SHALL BE 3" IN HEIGHT. CLEANOUT CAP ADJUSTED TO GRADE STAMP CONCRETE TO IDENTIY TYPE OF LINE "S" FOR SEWER "D" FOR DRAINAGE F'C=3000 PSI @ 28 DAYS PER SECTION 101, 340	PROJECT NO: 1460009000 DESIGNED BY: JPM DRAWN BY: JEM CHECKED BY: JPM DATE: JUN 2015 SHEET TITLE
LEANOUT COLLAR DETAIL	sheet no: C-503

CITY OF ALBUQUERQUE



June 23, 2015

Joe P. Moore, P.E. Wilson & Company 4900 Lang Ave NE Albuquerque, New Mexico 87112

RE: Manzano HS Portable Relocation 12200 Lomas Blvd NE Grading and Drainage Plan Engineers Stamp Date 6/3/15 (K22D020)

Dear Mr. Moore,

Based upon the information provided in your submittal received 2/27/15, this plan is approved for Grading Permit and Paving Permit.

Please attach a copy of this approved plan to the construction sets in the permitting process prior to sign-off by Hydrology.

PO Box 1293

If you have any questions, please contact me at 924-3695 or Rudy Rael at 924-3977.

Albuquerque

New Mexico 87103

www.cabq.gov

Sincerely, Rite r

Rita Harmon, P.E. Senior Engineer, Hydrology Planning Department

RR/RH C: File