CITY OF ALBUQUERQUE



March 7, 2013

Graeme Means, P.E. High Mesa Consulting Group 6010-B Midway Park Blvd NE Albuquerque, NM 87109

Re: Del Norte High School

Grading and Drainage Plan

Engineer's Stamp dated 2-20-13 (F18/D054)

Dear Mr. Means,

Based upon the information provided in your submittal received 2-20-13, the Grading and Drainage plan meets the requirements for Building permit.

However, please be advised that before a building permit can be issued an <u>Erosion and Sediment Control Plan (ESC)</u>, prepared by a registered professional engineer under the laws of the state of New Mexico, must be prepared, submitted and approved by the Hydrology Department if the Building Permit set is received after March 1, 2013.

Please attach a copy of this approved plan to the construction sets when submitting for a building permit. If the approved plan is not attached to the construction set, Hydrology will reject the construction set for building permit.

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

If you have any questions, you can contact me at 924-3986 or Rudy Rael at 924-3977.

Sincerely,

Curtis A. Cherne, P.E.
Principal Engineer, Planning Dept.

Development and Building Services

RER/CAC

C: File

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

OVERHEAD DOOR

PARKING BUMPER

PLASTIC BENCH

PAINTED ISLAND

PORTABLE PIER

PARKING STRIPE

PICNIC TABLE

POLE VAULT

ROOF DRAIN

ROUND DRAIN

RAILRUAD TIE

STEEL COVER

SD/FRD

SPCM

STRG

TELE

TRCB

TRPB

W/PM

WCR

WDW

WIP

WLSD

 \bigcirc

25.41

_____08 ____

PLANTER

OVERHEAD COMMUNICATION (# OF LINES)

OVERHEAD ELECTRIC (# OF LINES)

PRESSURE REDUCING VALVE IN VAULT

SANITARY SEWER FROM RECORD DRAWING

STORM DRAIN FROM RECORD DRAWING

STEEL GUARD POST WITH METAL RAIL

SERVICE DROP POLE WITH CAMERA

SANITARY SEWER BY PAINT MARK

REINFORCED CONCRETE PIPE

ROW OF PARKING BUMPERS

SPRINKLER CONTROL BOX

SPRINKLER CONTROL TIMER

SPRINKLER CONTROL VALVE

STORM DRAIN CLEANOUT

STORM DRAIN INLET

SERVICE DROP POLE

STEEL GUARD POST

SMALL SPRINKLER VALVE

SPEED HUMP

STEEL POLE

STANDARD

STORAGE

SIDEWALK

SWING SET

TELEPHONE

TOP OF GRATE

TRAFFIC MAST

TELEPHONE RISER

TRAFFIC PULLBOX

TRAFFIC SIGNAL

TRAFFIC SIGN

TOP OF WALL

VALLEY GUTTER

WOOD BENCH

WATER FAUCET

RECORD DRAWING

WOOD LIGHT POLE

WATER METER BOX

WOOD POWER POLE

WOOD SCHOOL SIGN

WOOD STEPS LANDING

WOOD LANDSCAPE DIVIDER

WOOD AND METAL STEPS

WATER FOUNTAIN

WATER HOTBOX

WOOD POLE

WOOD RAMP

WOOD SIGN

BOULDER

SHRUB

WOOD STEPS

WATER VAULT

WATER VALVE BOX

CONIFEROUS TREE

DECIDUOUS TREE

TREE DIAMETER

YUCCA/CACTUS

UTILITY LINE SPOT

PROPOSED CONTOUR

EXISTING CONTOUR

PROPOSED CONCRETE

HIGH POINT

PROPOSED FLOWLINE

PROPOSED SPOT ELEVATION

EXISTING FLOWLINE ELEVATION

PROPOSED ASPHALT PAVEMENT

PROPOSED FIRE HYDRANT

WINDOW

WHEELCHAIR RAMP

VENDING MACHINE PORTABLE

WATER BY PAINT MARK

WATER ASPHALT BLOCK

WATER FROM RECORD DRAWING

WATER AND FIRE PROTECTION FROM

WOOD POWER POLE WITH CONDUIT

WOOD POWER POLE WITH STREET LIGH

TYPICAL

TRAFFIC CONTROL BOX

STEEL HANDRAIL

SPRINKLER VALVE

SEWER VENT PIPE

SIDEWALK CULVERT

TOP OF ASPHALT

TELEPHONE CABINET

TELEPHONE CONDUIT

TOP OF CONCRETE

TRAFFIC CONTROL CABINET

TOP OF CURB

SPRINKLER VALVE BOX

ROUND STORM GRATE

ROCK WATERFALL

SANITARY SEWER

ROOF DRAIN WITH SPLASH BOX

OVERHEAD ELECTRIC MAST

PLAYGROUND EQUIPMENT

POST INDICATOR VALVE

OVERFLOW

AREA LIGHT

ASPHALT

ASPHALT PATH

ASPHALT RUNDOWN

ANTI-SIPHON VALVE

ART WORK/STATUE

BASKETBALL GOAL

BUILDING OVERHANG

BUILDING SUPPORT COLUMN (CONCRETE

COMMUNICATION FROM RECORD DRAWING

COMMUNICATION BY PAINT MARK

CONCRETE BUILDING COLUMN

BREAKER BOX

BLEACHERS

BIKE RACK

BACKSTOP

MASONRY UNIT)

COMMUNICATION

CURB AND GUTTER

CONCRETE BENCH

CONCRETE BASE

CONCRETE CURB

CONCRETE CHANNEL CONCRETE GUARD POST

CONCRETE HEADWALL

CENTERLINE OF DOOR

CONCRETE MOW STRIP

CONCRETE MASONRY UNIT

SANITARY SEWER CLEANOUT

CONCRETE PEDESTRIAN BRIDGE

CONCRETE RETAINING WALL

CONCRETE RETAINING WALL WITH

CONCRETE WALL WITH NET FENCE

DOUBLE SANITARY SEWER CLEANOUT

DOUBLE STORM DRAIN CLEANOUT

ELECTRIC FROM RECORD DRAWING

CHAINLINK FENCE

CANOPY COLUMN

COMMUNICATION

CONCRETE PIPE

CONCRETE RAMP

CHAINLINK FENCE

CONCRETE STEPS

CONCRETE WALL

DUST BLOWER

DOUBLE GATE

DRAIN THRU CURB

EDGE OF ASPHALT

EXERCISE EQUIPMENT

ELECTRIC CONDUIT

ELECTRIC METER

ELECTRIC OUTLET

ELECTRIC PULLBOX

EXISTING PORTABLE

FOOTBALL GOAL POST

FENCE POST WITH LIGHT

FROM RECORD DRAWING

GUARD POST WITH CABLE

GUARD POST WITH PIPE

GAS PRESSURE REGULATO

HORIZONTAL RAILROAD TIE

GAS PRESSURE REGULATOR VALVE

GAS BY PAINT MARK

GAS FROM RECORD DRAWING

FIRE DEPARTMENT CONNECTION

EXISTING STORAGE

FINISHED FLOOR

FIRE HYDRANT

FLOWLINE

FOUL POLE

FLAG POLE

GUY ANCHOR

GUARD POST

GUARD RAIL

GAS SERVICE

GREASE TRAP

GAS VALVE BOX

HANDICAP SIGN

IRRIGATION TIMER

METAL BENCH

MOBILE HOME

METAL COLUMN

METAL HANDRAIL

METAL POLE

METAL RAMP

METAL SHED

MATERIAL BINS

METAL SIGN

METAL LIGHT POLE MEMORIAL BENCH

METAL PICNIC TABLE

METAL CAGE

MANHOLE

LANDSCAPE TIMBER

METAL BUILDING COLUMN

METER CAN WITH VALVE

METAL FENCE SUPPORT

METAL GUARD POST

GAS VAULT

HEATER

INVERT

ELECTRIC

ENCLOSURE

CONCRETE DRIVEWAYS

ELECTRIC BY PAINT MARK

CONCRETE SIDEWALK

CONCRETE TRASH CAN

CABLE TELEVISION RISER

DECORATIVE FUEL TANKS

COMMUNICATION VAULT

CONCRETE RUNDOWN

CENTERLINE OF DOUBLE DOOR

CENTERLINE OF GARAGE DOOR

CHAINLINK ELECTRIC ENCLOSURE

CONCRETE MASONRY UNIT WITH NET

CONCRETE ISLAND

CONCRETE PIPE

CENTERLINE

FENCE

CANOPY

CONCRETE

CONCRETE WITH HOPPER

BRIDGE

C/FRD

CMU/NF

COMM

CONC

CRW/CLF

CTVR

CW/NF

E/FRD

ENCL

FGP

G/FRD

G/PM

GPRV

HTR

INV

MBC

MBHM

MFS

MSD

MTBN

BUILDING

ANNOUNCER'S TOWER

ATHLETIC STORAGE BUILDING

interiors

landscape

planning

7601 Jefferson NE Suite 100 Albuquerque, NM 87109 505 761-9700 fax 761-4222

F - 18

PRD R-2 USE

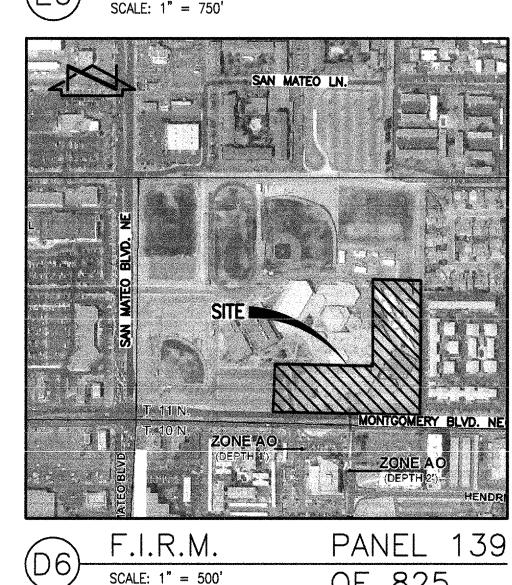
TALL'1818 | CNUT &

PEDRO (UNIT 3)

VILLAGE

SAN

BYRDS 3 10 10 10 12 12



LEGAL DESCRIPTION

a Brecheisen Addn

BANKERS

MUNICIPAL ADDN NO 1

__INDUSTRIES

UNION

SU-1 PRD

···271LIFE

GOODWILL

TRACT B-1A, MUNICIPAL ADDITION NO. 1

BENCHMARKS

PROJECT BENCHMARK ACS 3 1/4" ALUMINUM CAP STAMPED "9-F18 1986", SET FLUSH IN THE TOP OF CURB, IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF SAN MATEO BOULEVARD AND SAN MATEO

ELEVATION = 5212.228 FEET (NAVD 1988) T.B.M. #1

ACS 1 3/4" ALUMINUM CAP STAMPED "ACS BM, 11-F18", EPOXIED TO TOP OF CONCRETE BASE OF LIGHT STANCHION, ENE QUADRANT OF MONTGOMERY BOULEVARD AND MADEIRA DRIVE ELEVATION = 5229.041 FEET (NAVD 1988)

T.B.M. #2 A BRIDGE SPIKE WITH JMA CONTROL CAP LOCATED APPROXIMATELY 36' SOUTH OF THE PEDESTRIAN BRIDGE TO THE STUDENT PARKING AND 14' WEST OF THE CONCRETE WALKWAY. ELEVATION = 5230.31 FEET (NAVD 1988)

T.B.M. #3 ACS 1 3/4" ALUMINUM CAP STAMPED "ACS BM, 10-F18", EPOXIED TO TOP OF CONCRETE DROP INLET, ENE QUADRANT OF MONTGOMERY BOULEVARD AND SAN MATEO BOULEVARD N.E.

ELEVATION = 5204.752 FEET (NAVD 1988) SURVEY NOTE

THIS IS NOT A BOUNDARY SURVEY: DATA IS SHOWN FOR ORIENTATION ONLY. THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON THE BOUNDARY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS NO. 11184, DATED 06/30/2008. TOPOGRAPHIC SURVEY INFORMATION IS BASED UPON A TOPOGRAPHIC SURVEY PREPARED BY HIGH MESA CONSULTING GROUP ON 06/30/2008, NMPS NO. 11184. AN OFFSITE TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP ON 07/23/2009, NMPS NO. 11184, AND SUPPLEMENTAL TOPOGRAPHIC AND UTILITY SURVEYS PREPARED BY HIGH MESA CONSULTING GROUP DATED 10/06/2009 AND 01/03/2011, NMPS NO. 11184.

EASEMENT KEYED NOTES

EASEMENTS

(1) 36' DRAINAGE EASEMENT GRANTED BY PLAT C12-118

(2) 5' UTILITY EASEMENT GRANTED BY PLAT C12-118

(3) 50' DRAINAGE EASEMENT GRANTED BY PLAT C12-118

(4) 20' P.N.M. EASEMENT GRANTED BY DOCUMENT FILED 01-15-1959, BOOK D459, PAGE 335

(5) PEDESTRIAN CROSSWALK EASEMENT GRANTED BY DOCUMENT EXECUTED 03-13-1980 (6) 8' P.N.M. AND M.S.T.&T. EASEMENT GRANTED BY DOCUMENT EXECUTED 11-15-1963

(7) CITY OF ALBUQUERQUE DRAINAGE EASEMENT GRANTED BY DOCUMENT EXECUTED 09-02-1970 (8) P.N.M. EASEMENT GRANTED BY DOCUMENT EXECUTED 04-07-1969

(9) 10' CITY OF ALBUQUERQUE WATERLINE EASEMENT REFERENCED BY AGREEMENT FILED 04-05-1963, BOOK D688, PAGE 107 BETWEEN C.O.A. AND P.N.M.

(18) ABCWUA WATER LINE EASEMENT GRANTED BY DOCUMENT FILED 10-21-2010, DOCUMENT NUMBER 2010106692

EASEMENTS - OFFSITE

(10) 30' UTILITY AND DRAINAGE EASEMENT GRANTED BY PLAT D3-83 (11) 44' UTILITY AND DRAINAGE EASEMENT GRANTED BY PLAT D3-83

(12) 10' SEWER MAIN EASEMENT GRANTED BY PLAT D3-83

(13) 10' UTILITY EASEMENT GRANTED BY PLAT D3-83 (14) 20' UTILITY EASEMENT GRANTED BY PLAT D4-11

(15) 30' DRAINAGE EASEMENT GRANTED BY PLAT D7-177

(16) 20' PUBLIC THOROUGHFARE DEDICATED BY PLAT D3-59 (17) 30' UTILITY AND DRAINAGE EASEMENT GRANTED BY PLAT D3-59 dps@dpsdesign.org ARCHITECT

ENGINEER

DEL NORTE HIGH SCHOO 5323 MONTGOMERY N ALBUQUERQUE, NM

INDUSTRIAL AND FINE ARTS BUILDING

DRAWN BY J.Y.R. G.M. **REVIEWED BY** DATE 03-04-2013 PROJECT NO. 08-0041

I CIVIL COVER SHEET

DRAWING NAME

MESA\Consulting Group 6010-B MIDWAY PARK BLVD. NE . ALBUQUERQUE, NEW MEXICO 87109 PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

2010.048.

BE CONSTRUCTED IN ACCORDANCE WITH THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1987, PUBLISHED THIS PROJECT, LOCATED IN NORTHEAST ALBUQUERQUE, REPRESENTS NEW CONSTRUCTION AT A PORTION OF A BY THE NEW MEXICO CHAPTER AMERICAN PUBLIC WORKS ASSOCIATION. (REVISED 12/06) DEVELOPED HIGH SCHOOL SITE WITHIN AN INFILL AREA. THE PROPOSED INDUSTRIAL AND FINE ARTS BUILDING WITH TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 260-1990, FOR DESIGNATION PAVED PARKING/ACCESS IMPROVEMENTS IS THE THIRD PHASE OF A MAJOR REDEVELOPMENT AT DEL NORTE HIGH (LINE-SPOTTING) OF EXISTING PUBLIC UTILITIES AND EXISTING UTILITIES OWNED AND OPERATED BY ALBUQUERQUE PUBLIC SCHOOLS. SCHOOL. IN ACCORDANCE WITH THE SITE MASTER DRAINAGE PLAN THAT WAS PREPARED TO SUPPORT THIS

REDUCED PEAK RATES OF DISCHARGE. THIS SUBMITTAL FOLLOWS THE INTENT OF THE APPROVED MASTER DRAINAGE PLAN FOR THE SITE AND IS MADE IN SUPPORT OF BUILDING PERMIT APPROVAL.

DEVELOPMENT, ALL RUNOFF WILL BE COLLECTED, CONVEYED AND CONTROLLED IN A RESPONSIBLE MANNER AND AT

II. PROJECT DESCRIPTION:

AS SHOWN BY VICINITY MAP F-18, DEL NORTE HIGH SCHOOL IS LOCATED IN A DEVELOPED SECTION OF THE CITY OF ALBUQUERQUE'S NORTHEAST HEIGHTS AT THE NORTHEAST CORNER OF SAN MATEO BLVD NE AND MONTGOMERY BLVD NE. THE MAIN CAMPUS IS BORDERED BY MONTGOMERY BOULEVARD NE ON THE SOUTH, SAN MATEO BOULEVARD ON THE WEST, THE CITY OF ALBUQUERQUE GRANT LINE CHANNEL ON THE NORTH, BY WHISPERWOOD SUBDIVISION UNIT 2 AT THE NORTHERLY HALF AT THE EAST PROPERTY LINE, AND BY AN EXISTING APARTMENT COMPLEX AT THE SOUTH HALF OF THE EAST PROPERTY LINE. A PORTION OF APS PROPERTY LIES NORTH OF THE GRANT LINE CHANNEL WHICH SERVES AS THE DEL NORTE HIGH SCHOOL STUDENT PARKING LOT AND BUS DROP OFF AREA. THE SITE IS ZONED C-2.

AS SHOWN BY PANEL 139 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS, BERNALILLO COUNTY, NEW MEXICO, AND INCORPORATED AREAS, DATED SEPTEMBER 26, 2008, THE SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE.

III. BACKGROUND DOCUMENTS:

1) THE IMPROVEMENTS PROPOSED BY THIS PROJECT WERE SHOWN AND ACCOUNTED FOR IN THE DEL NORTE HIGH SCHOOL MASTER DRAINAGE REPORT PREPARED BY THIS OFFICE DATED 09/09/2009 AND REVISED 06/28/2010 (HYDROLOGY FILE F18/D054, NMPE 13676). THE MASTER DRAINAGE PLAN WAS SUBMITTED AS A GUIDE TO THE PROPOSED RECONSTRUCTION OF DEL NORTÉ HIGH SCHOOL WHICH WILL RESULT IN A NET DECREASE IN PEAK RATE AND VOLUME OF DISCHARGE LEAVING THE SITE WHILE IMPROVING THE MANNER OF DISCHARGE BY SIGNIFICANTLY REDUCING SURFACE DISCHARGE TO THE ADJACENT STREETS (MONTGOMERY AND SAN MATEO) WHILE DIVERTING SITE AREA FORMERLY DRAINING TO THE STREETS TO THE GRANT LINE CHANNEL WHICH IS BETTER SUITED TO ACCEPT AND CONVEY TO FLOWS. THE PROPOSED REDEVELOPMENT WILL SIGNIFICANTLY IMPROVE EXISTING CONDITIONS WHEREBY SITE RUNOFF FREELY DISCHARGES OVER THE FRONTING SIDEWALKS AND ALSO ENTERS THE GRANT LINE CHANNEL IN AN UNCONTROLLED OVERLAND FASHION.

2) GRADING AND DRAINAGE PLAN FOR NEW TECH HIGH SCHOOL, ENGINEER'S CERTIFICATION DATED 11/18/2010 (HYDROLOGY FILE F18/0054, NMPE 13676) PRÉPARED BY THIS OFFICE. THIS PLAN SUPPORTED THE FIRST PHASE OF DEL NORTE HIGH SCHOOL NEAR THE NORTHEAST CORNER OF THE SITE. ITS SITE IMPROVEMENTS INCLUDE A STORM DRAIN SYSTEM AND A WATER QUALITY RETENTION/DETENTION POND SERVING BASIN C.

3) GRADING AND DRAINAGE PLAN FOR DEL NORTE HIGH SCHOOL CLASSROOM AND MEDIA CENTER ADDITION, ENGINEER'S CERTIFICATION DATED 05/10/2012 (HYDROLOGY FILE F18/D054, NMPE 13676) PREPARED BY THIS OFFICE. THIS PLAN SUPPORTED THE SECOND PHASE OF CONSTRUCTION THAT INCLUDED A NEW PARKING LOT AT THE WEST END OF THE SITE AND A NEW CLASSROOM AND MEDIA CENTER BUILDING.

IV. EXISTING CONDITIONS:

AS DESCRIBED BY THE AFOREMENTIONED MASTER DRAINAGE PLAN, THE SITE IS CURRENTLY DEVELOPED AS A PUBLIC HIGH SCHOOL. THE PROPOSED IMPROVEMENTS LIE WITHIN BASINS A AND C AS IDENTIFIED BY THE MASTER DRAINAGE PLAN. BASIN A CURRENTLY DRAINS FREELY AS OVERLAND SURFACE RUNOFF OVER THE SIDEWALK TO MONTGOMERY BOULEVARD. BASIN C HAS MINIMAL TOPOGRAPHIC RELIEF, GRADUALLY DRAINING FROM SOUTHEAST TO NORTHWEST TO THE RECENTLY CONSTRUCTED STORM DRAIN AND RETENTION/DETENTION PONDING SYSTEM CONSTRUCTED WITH PHASE 1. THE EXISTING AND PRE-EXISTING PATTERNS ARE DESCRIBED IN MORE DETAIL IN THE

AFOREMENTIONED MASTER DRAINAGE PLAN. V. DEVELOPED CONDITIONS

THE PROPOSED IMPROVEMENTS INCLUDE A NEW INDUSTRIAL AND FINE ARTS BUILDING WITH ASSOCIATED PAVED PARKING AND LANDSCAPING IMPROVEMENTS. THIS PHASE WILL ALSO CONSTRUCT PAVED PARKING AT ACCESS IMPROVEMENTS NEAR THE SOUTHEAST AREA OF THE CAMPUS. A SEPARATE PLAN SET (WORK ORDER) WILL ADDRESS OFFSITE TURN LANE CONSTRUCTION RELATED TO THE NEW ACCESS. THE BUILDING WILL BE LOCATED IN A VACANT AREA THAT PREVIOUSLY CONTAINED SEVERAL PORTABLE CLASSROOM BUILDINGS THAT WERE REMOVED AND DEMOLISHED IN THE SUMMER OF 2012. THE NEW BUILDING WILL DISCHARGE ALL ROOF DRAINAGE TO THE EAST DIRECTLY TO THE NEW PAVED EMERGENCY ACCESS ROADWAY TO NEW STORM DRAINS THAT WERE CONSTRUCTED WITH PHASE 1 OF THE PROJECT AND THAT EVENTUALLY OUTFALL TO THE GRANT LINE CHANNEL AFTER BEING ROUTED THROUGH THE EXISTING WATER QUALITY / DETENTION POND CONSTRUCTED WITH PHASE 1 THAT WILL RETAIN A MAXIMUM OF 18" DEPTH OF RUNOFF. STORMWATER IN EXCESS OF THAT DEPTH DISCHARGES DIRECTLY TO THE GRANT LINE CHANNEL VIA CHANNEL PENETRATION CONSTRUCTED WITH PHASE 1.

THE PAVED PARKING AND ACCESS AREAS WILL TO DRAIN TO MONTGOMERY IN AN IMPROVED MANNER. SHEET FLOW ON THE PAVEMENT WILL BE CONCENTRATED AND INTRODUCED INTO A PRIVATE STORM DRAIN. THIS PRIVATE STORM DRAIN WILL ROUTE THE DEVELOPED FLOWS THROUGH A LANDSCAPED PONDING AREA THAT WILL SIMILARLY RETAIN 18" DEPTH BEFORE OVERFLOWING TO THE HISTORIC MONTGOMERY OUTFALL. THIS CONCEPT WAS ESTABLISHED AND UTILIZED WITH PHASE 2 AND PROVIDES ATTENUATION OF NUISANCE FLOWS IN ADDITION TO WATER QUALITY BENEFITS THE PROPOSED IMPROVEMENTS WI IMPROVE THE MANNER IN WHICH RUNOFF DRAINS TO THE PUBLIC STREETS WHILE ALSO REDUCING THE VOLUME AND PEAK RATE OF DISCHARGE THROUGH PONDING. RUNOFF WILL NO LONGER DRAIN OVER THE PUBLIC SIDEWALK TO MONTGOMERY. THE NEW SIDEWALK CULVERT DISCHARGE WILL BE CONSTRUCTED VIA WORK ORDER IN CONJUNCTION WITH THE OFFSITE TURN LANE IMPROVEMENTS.

VI. GRADING PLAN

THE GRADING PLANS ON SHEETS CG-101-N AND CG-101-S SHOW: 1) EXISTING GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS FROM THE TOPOGRAPHIC, BOUNDARY AND UTILITY SURVEY CONDUCTED BY THIS OFFICE DATED 06/30/2008 AND SUPPLEMENTED AND UPDATED 07/23/2009, 10/6/2009 AND 01/03/2011 (NMPS 11184) 2) PROPOSED GRADES INDICATED BY FLOOR ELEVATIONS, SPOT ELEVATIONS, CONTOURS, TOP OF CURB ELEVATIONS AND FLOWLINES, 3) THE LIMIT AND CHARACTER OF THE EXISTING IMPROVEMENTS AS SHOWN BY THE AFOREMENTIONED SURVEY, 4) THE LIMIT AND CHARACTER OF THE PROPOSED IMPROVEMENTS, AND 5) CONTINUITY

BETWEEN PROPOSED AND EXISTING GRADES. VII. CALCULATIONS

THIS PROJECT WAS IDENTIFIED BY THE REFERENCED MASTER DRAINAGE REPORT WHICH INCLUDED COMPREHENSIVE OVERALL DRAINAGE CALCULATIONS FOR THE OVERALL SITE OF WHICH THIS IS THE THIRD PHASE. AS SUCH, NEW CALCULATIONS FOR THIS SPECIFIC AREA ARE NOT PROVIDED HEREWITH. THE PROPOSED PROJECT WILL RESULT IN A RELATIVE MATCHING CONDITION IN IMPERVIOUS AREA WITH ALL DEVELOPED RUNOFF BEING INTERCEPTED DIRECTLY BY THE PROPOSED STORM DRAIN SYSTEM AND ROUTED THROUGH DETENTION / WATER QUALITY PONDS THAT WILL RETAIN AN 18" DEPTH OF RUNOFF FOR WATER QUALITY AND QUANTITY LEED REQUIREMENTS, THEREBY RESULTING IN A SIGNIFICANT DECREASE IN THE VOLUME AND PEAK RATE AND DISCHARGE FROM THIS AREA TO THE ADJACENT

STREETS WHILE ALSO IMPROVING THE MANNER OF DISCHARGE. VIII. CONCLUSIONS

THE PROPOSED CONTINUED DISCHARGE OF RUNOFF FROM THIS AREA OF THE SITE TO ADJACENT PUBLIC CITY STREETS AND A PUBLIC CITY DRAINAGE CHANNEL AT IS JUSTIFIED DUE TO THE FOLLOWING:

- 1) MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL AREA
- CONFORMANCE WITH MASTER DRAINAGE REPORT THAT SPECIFICALLY INCLUDED THIS DEVELOPMENT
- IMPROVED MANNER OF DISCHARGE TO EXISTING OUTFALL. THERE ARE NO PUBLIC DRAINAGE EASEMENTS REQUIRED TO IMPLEMENT THIS PROJECT.
- SEPARATE SUBMITTALS FOR SUBSEQUENT PHASES OF REDEVELOPMENT OF THE SITE WILL BE REQUIRED FOR

- CONDUCTING EXCAVATION. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS. IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES. SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES. . THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION. 6. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.
- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY 8. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.

ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON,

IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE

MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED

CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH. SIZE, OR TYPE OF

EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE,

THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE CONTRACTOR

SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK

TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND

IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE

UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME

- CONTRACTOR SHALL NOTIFY THE SURVEYOR NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE SURVEYOR MAY TAKE NECESSARY MEASURES TO ENSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE SURVEYOR AND SHALL NOTIFY THE SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN
- EXPENSE. ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. 10. ALL PAVEMENT MARKINGS AND TRAFFIC SIGNS SHALL COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION, LATEST EDITION.
- 11. IF THE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK, AND/OR PAVING IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. WHEN ABUTTING NEW PAVEMENT TO EXISTING, THE CONTRACTOR SHALL CUT BACK THE EXISTING PAVING TO A STRAIGHT LINE IN ORDER TO REMOVE ANY BROKEN OR CRACKED PAVEMENT. CURB AND GUTTER AND/OR PAVEMENT SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT AND WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- 12. A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL (CONTAMINATED OR OTHERWISE), ASPHALTIC PAVING, CONCRETE PAVING, ETC. SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE REGULATIONS. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND IN HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT SHALL BE MADE.
- 13. A BORROW SITE FOR IMPORT MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE REGULATIONS. ALL COSTS INCURRED IN OBTAINING A BORROW SITE AND IN HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY OBTAINING THE REQUIRED COMPACTION. THE CONTRACTOR SHALL SELECT AND USE
- METHODS WHICH SHALL NOT BE INJURIOUS OR DAMAGING TO THE EXISTING FACILITIES AND STRUCTURES WHICH SURROUND THE WORK AREAS. 15. THE CONTRACTOR SHALL CONFINE HIS WORK WITHIN THE CONSTRUCTION LIMITS IN ORDER TO PRESERVE THE EXISTING IMPROVEMENTS AND SO AS NOT TO INTERFERE WITH THE OPERATIONS OF THE EXISTING FACILITIES.
- SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES OR IMPROVEMENTS. THIS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND/OR INSTALL PIPE

- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- 18. ALL DIMENSIONS AND RADII OF CURB, CURB RETURNS, AND WALLS ARE SHOWN TO THE FACE OF CURB AND/OR WALL. 19. THE CONTRACTOR SHALL NOTIFY THE OWNER 48 HOURS PRIOR TO STRIPING SO THAT LAYOUT CAN BE VERIFIED.
- 20. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
- 22. ALL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% ASTM D-1557 UNLESS A GREATER COMPACTION REQUIREMENT IS OTHERWISE SPECIFIED. REFER TO GEOTECHNICAL REPORT FOR EARTHWORK REQUIREMENTS AND PROCEDURES. 24. CAUTION: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY
- OF THE CONTRACTOR. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926. SUBPART P-EXCAVATIONS. 25. THE CONTRACTOR SHALL SECURE ON BEHALF OF THE OWNER AND OPERATORS "FUGITIVE DUST CONTROL PERMIT" FROM THE CITY AND FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION. PLEASE REFER TO WWW.CABQ.GOV FOR FUGITIVE DUST PERMITTING

requirements, applications, and techniques. Please refer to owner provided swppp for this project.

CONSTRUCTION NOTES:

21. ALL FILL SHALL BE FREE FROM VEGETATION, DEBRIS, AND OTHER DELETERIOUS MATERIALS

- 1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION. CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM 260-1990 FOR DESIGNATION. (LINE-SPOTTING) OF EXISTING PUBLIC UTILITIES AND EXISTING UTILITIES OWNED AND OPERATED BY ALBUQUERQUE PUBLIC SCHOOLS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, SHALL BE CONSTRUCTED IN

- ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH 5. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN. THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELÍNE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE,
- IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES. THE DESIGN OF PLANTERS AND LANDSCAPED AREAS IS NOT PART OF THIS PLAN. ALL PLANTERS AND LANDSCAPED AREAS ADJACENT TO THE
- BUILDING(S) SHALL BE PROVIDED WITH POSITIVE DRAINAGE TO AVOID ANY PONDING ADJACENT TO THE STRUCTURE. FOR CONSTRUCTION DETAILS. REFER TO LANDSCAPING PLAN. THE CONTRACTOR SHALL SECURE ON BEHALF OF THE OWNER AND OPERATORS "FUGITIVE DUST CONTROL PERMIT" FROM THE CITY AND FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION. PLEASE REFER TO WWW.CABQ.GOV FOR FUGITIVE DUST PERMITTING
- REQUIREMENTS, APPLICATIONS, AND TECHNIQUES. PLEASE REFER TO OWNER PROVIDED SWPPP FOR THIS PROJECT.

EROSION CONTROL MEASURES

11. ALL SEWER PIPE SHALL BE PVC (SDR-35).

- . THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
- THE CONTRACTOR SHALL SECURE ON BEHALF OF THE OWNER AND OPERATORS "FUGITIVE DUST CONTROL PERMIT" FROM THE CITY AND FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION. PLEASE REFER TO WWW.CABQ.GOV FOR FUGITIVE DUST PERMITTING REQUIREMENTS, APPLICATIONS, AND TECHNIQUES. PLEASE REFER TO OWNER PROVIDED SWPPP FOR THIS PROJECT.

WATER, SANITARY SEWER AND GAS CONSTRUCTION NOTES:

- FOR ALL WATER LINES 4" TO 12" AND SMALLER, WATER MAIN SHALL BE PVC C-900 DR18 PIPE OR AS APPROVED BY THE WATER AUTHORITY. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.
- WATER SERVICES AND FITTINGS SMALLER THAN 4" SHALL BE OF A MATERIAL APPROVED BY THE CITY OF ALBUQUERQUE BUILDING DEPARTMENT. WATER LINE SHALL HAVE A MINIMUM COVER OF 3'-0" (FINISHED GRADE TO TOP OF PIPE) FOR ALL LINES 12" OR SMALLER: 4'-0" MINIMUM COVER FOR LINES 14" OR LARGER. EXTRA DEPTH TRENCHING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- NEW WATER AND NATURAL GAS INSTALLATIONS SHALL INCLUDE INSULATED 12 GAUGE COPPER TRACER WIRE INSTALLED CONTINUOUSLY ALONG THE PIPE WITH WATER-PROOF SPLICE BOXES AT JUNCTIONS AND TEES. TRACER WIRE SHALL BE ACCESSIBLE AT ALL VALVES, SERVICES, AND RISERS. TRACER WIRE SHALL BE CONSIDERED INCIDENTAL TO UTILITY INSTALLATION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- 5. IN ACCORDANCE WITH SECTION 801 OF THE "STANDARD SPECIFICATIONS", METALIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT. 6. JOINT RESTRAINT SHALL BE CONSIDERED INCIDENTAL TO WATER LINE CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
- 8. FOR THE PURPOSES OF THIS PROJECT, ALL RESTRAINED JOINTS AND JOINT RESTRAINT SHALL BE MECHANICALLY RESTRAINED. JOINT RESTRAINT LENGTHS SPECIFIED HEREON ARE THE LENGTHS TO BE RESTRAINED EACH SIDE OF THE FITTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO
- AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE. 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPÁRATE PAYMENT WILL BE MADE.
- 12. GAS LINES, FITTINGS AND APPURTENANCES SHALL BE OF TYPE AND MATERIAL AS SPECIFIED BY THE PLUMBING ENGINEER.

7. JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE LINES FROM TEE TO BUILDING INCLUDING THE TEE.

METAL STORAGE CONTAINER

SITE INFORMATION, NOTES, LEGEND, INDEX OF DRAWINGS, DRAINAGE PLAN AND CALCULATIONS C-001

CS-101 BUILDING LOCATION PLAN/OVERALL PLAN CP-101-N PAVING PLAN — (NORTH)

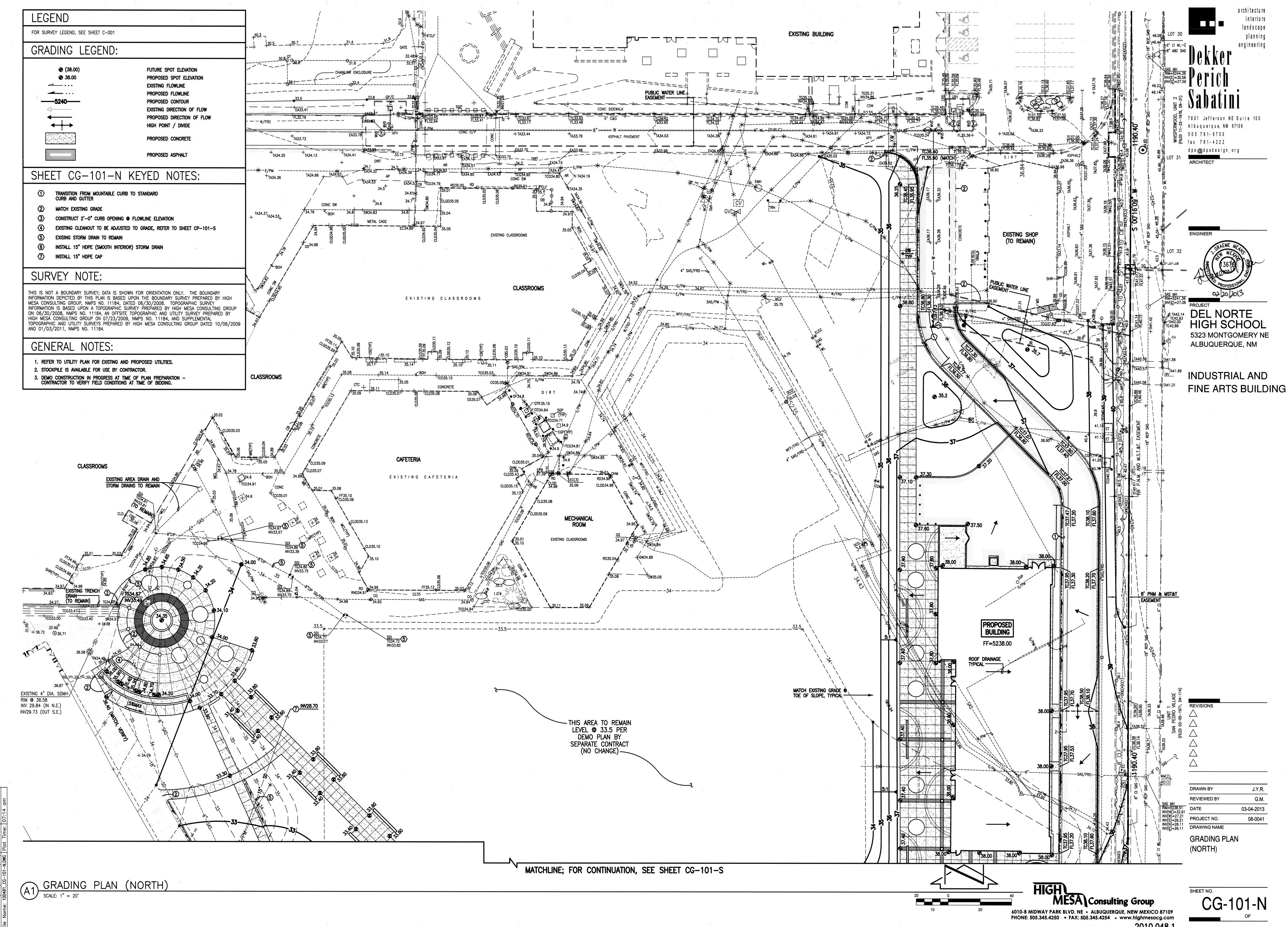
CP-101-S PAVING PLAN - (SOUTH) PAVING SECTIONS AND DETAILS CP-301 CG-101-N GRADING PLAN (NORTH)

CG-101-S GRADING PLAN (SOUTH) STORM INLET AND DRAINAGE SECTIONS AND DETAILS

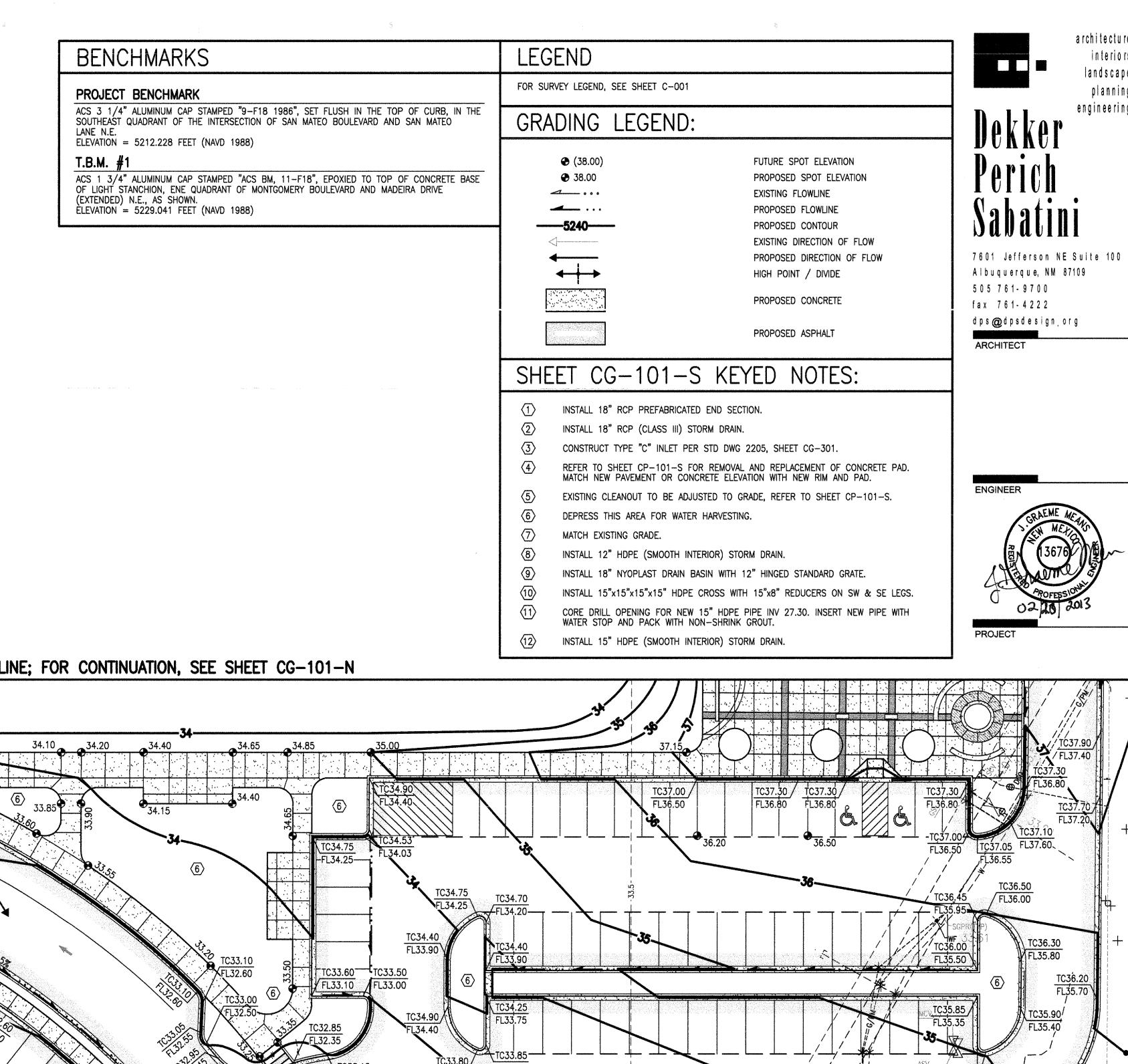
CG-302 MANHOLE SECTIONS AND DETAILS

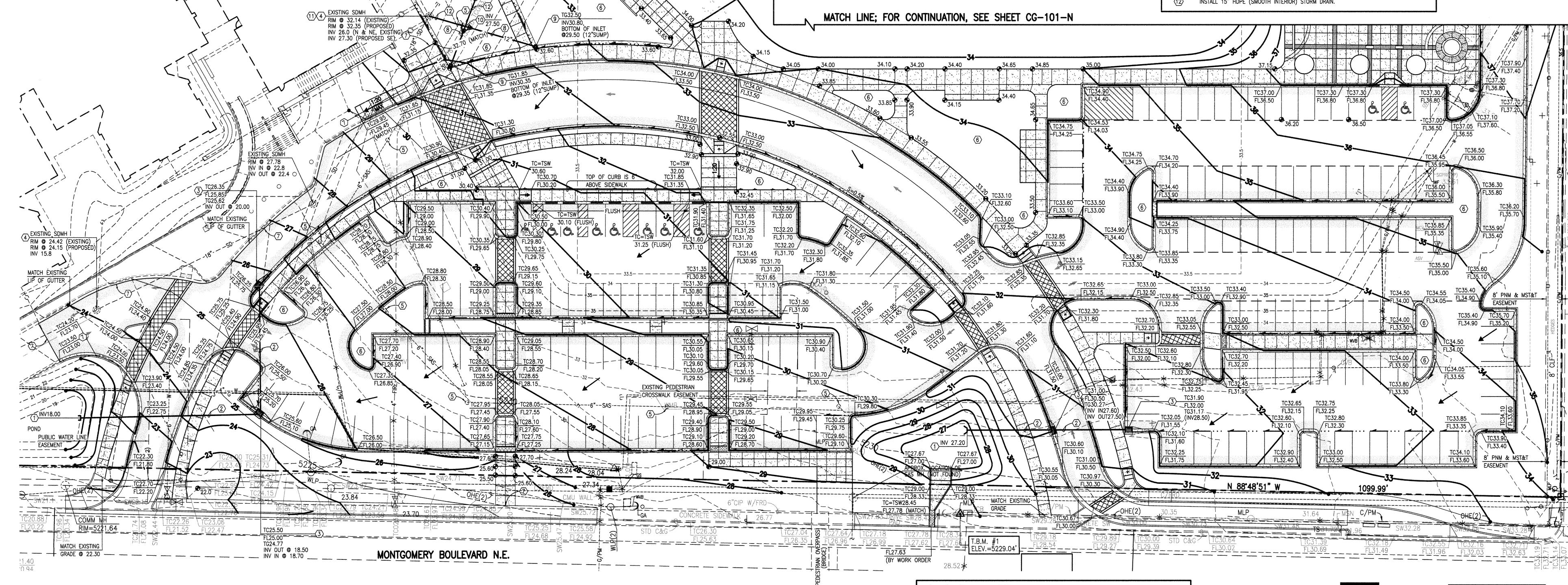
WATER, NATURAL GAS, SANITARY SEWER, AND FIRE PROTECTION SITE PLAN (NORTH) WATER, NATURAL GAS, SANITARY SEWER, AND FIRE PROTECTION SITE PLAN (SOUTH) WATER, SANITARY SEWER AND FIRE PROTECTION SECTIONS AND DETAILS

SHEET NO.



2010.048.1





SURVEY NOTE THIS IS NOT A BOUNDARY SURVEY; DATA IS SHOWN FOR ORIENTATION ONLY. THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON THE BOUNDARY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS NO. 11184, DATED 06/30/2008. TOPOGRAPHIC SURVEY INFORMATION IS BASED UPON A TOPOGRAPHIC SURVEY PREPARED BY HIGH MESA CONSULTING GROUP ON 06/30/2008, NMPS NO. 11184, AN OFFSITE TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP ON 07/23/2009, NMPS NO. 11184, AND SUPPLEMENTAL TOPOGRAPHIC AND UTILITY SURVEYS PREPARED BY HIGH MESA CONSULTING GROUP DATED 10/06/2009 AND 01/03/2011, NMPS NO. 11184. DEL NORTE HIGH SCHOOL 5323 MONTGOMERY NE ALBUQUERQUE, NM

DRAWN BY J.Y.R. REVIEWED BY DATE 03-04-2013 08-0041 PROJECT NO. DRAWING NAME

SOUTH

INDUSTRIAL AND FINE ARTS BUILDING

> HIGHL MESA Consulting Group 6010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109

REVISIONS

CG-101-S

GRADING PLAN -

G.M.

archite cture

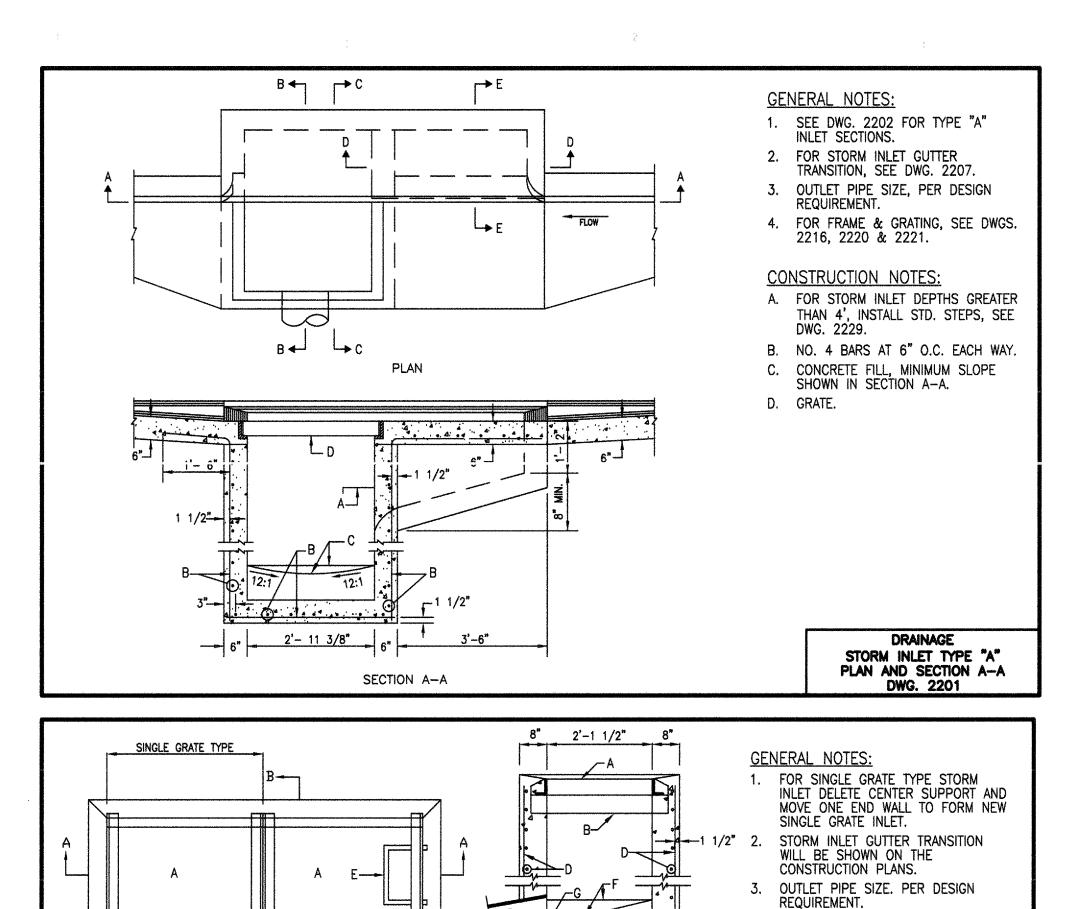
engineering

GRADING PLAN - SOUTH

SCALE: 1" = 20'

PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

2010.048.1



3'-5 1/2"

SECTION B-B

PLAN

7'-8 3/4"

6'-4 3/4"

4. FOR FRAME & GRATING, SEE DWGS.

5. FOR CENTER SUPPORT ASSEMBLY.

B. CENTER SUPPORT ASSEMBLY.

C. CUT ONE HORIZONTAL AND ONE

VERTICAL BAR MAX. AT PIPE

D. NO. 4 BARS AT 6" O.C. EACH WAY.

E. USE STANDARD STEPS. SEE DWG.

F. CONC. FILL. SEE NOTE C DWG.

G. INVERT PER DESIGN. H. INSTALL STEPS ON DOWNSTREAM FACE.

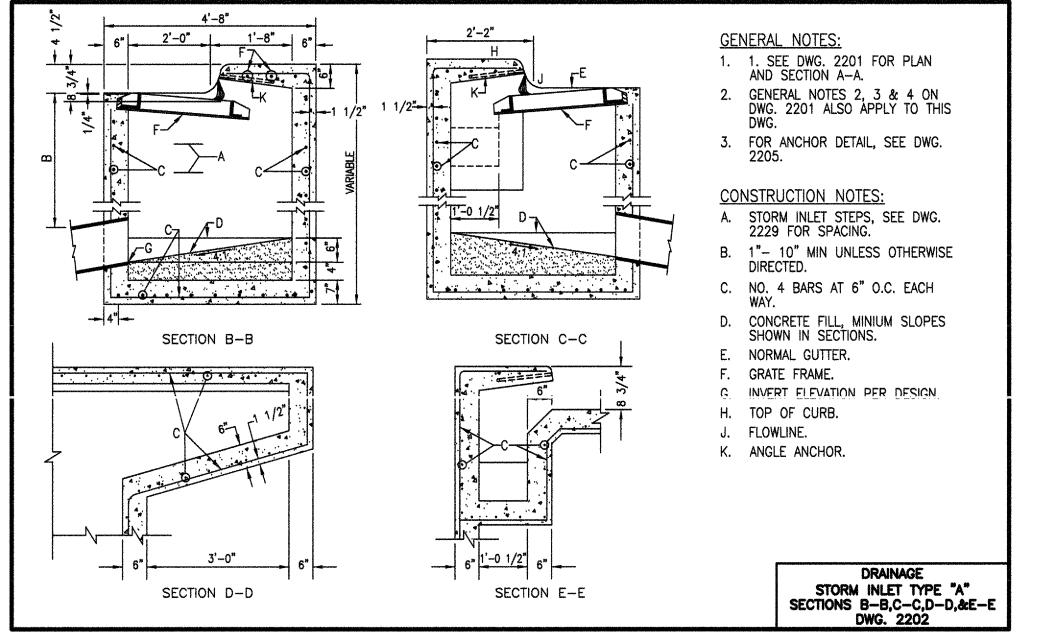
2216, 2220 & 2221.

SEE DWG 2215.

CONSTRUCTION NOTES:

A. FRAME & GRATE

OPENING.



SEE NOTE J

PLAN

LONGITUDINAL SECTION

ALONG FLOWLINE

44 44 44 44

GENERAL NOTES:

B. STRAIGHT GRADE.

C. EXPANSION JOINT.

2216 & 2220. G. DIRECTION OF FLOW.

D. TOP OF CURB.

E. FLOWLINE.

DETAILS FOR PLACING CATCH
BASINS, STANDARD CURB AND
GUTTER.

A. STANDARD CURB AND GUTTER

- F. FOR FRAME & GRATE SEE DWGS.

H. POINT OF MEASUREMENT FOR

TOP OF GRATE ELEVATION.

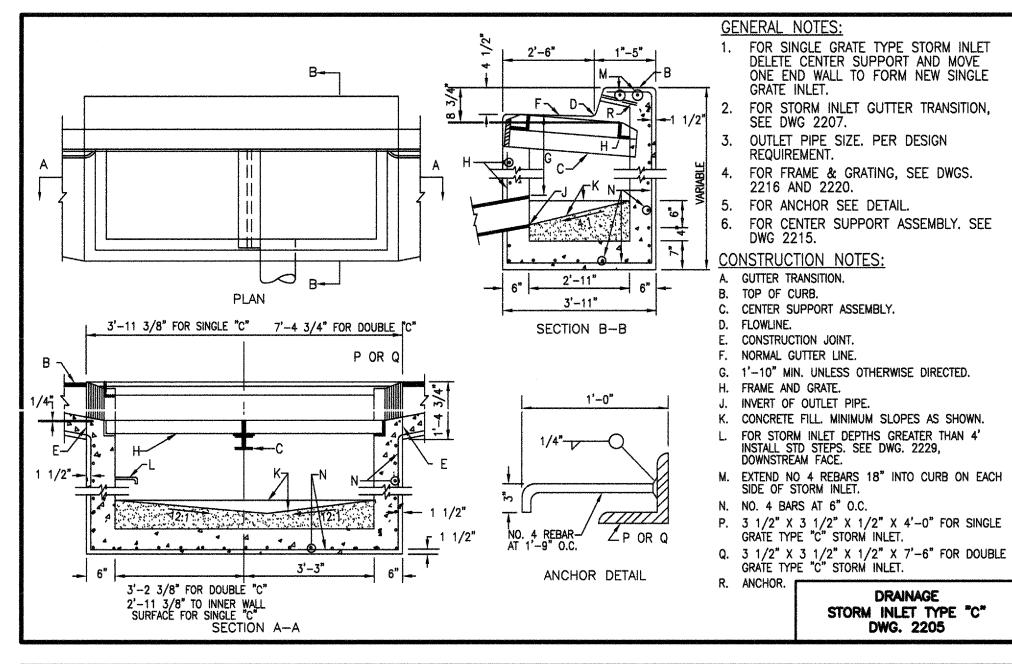
. PROVIDE 10 FEET TRANSITION

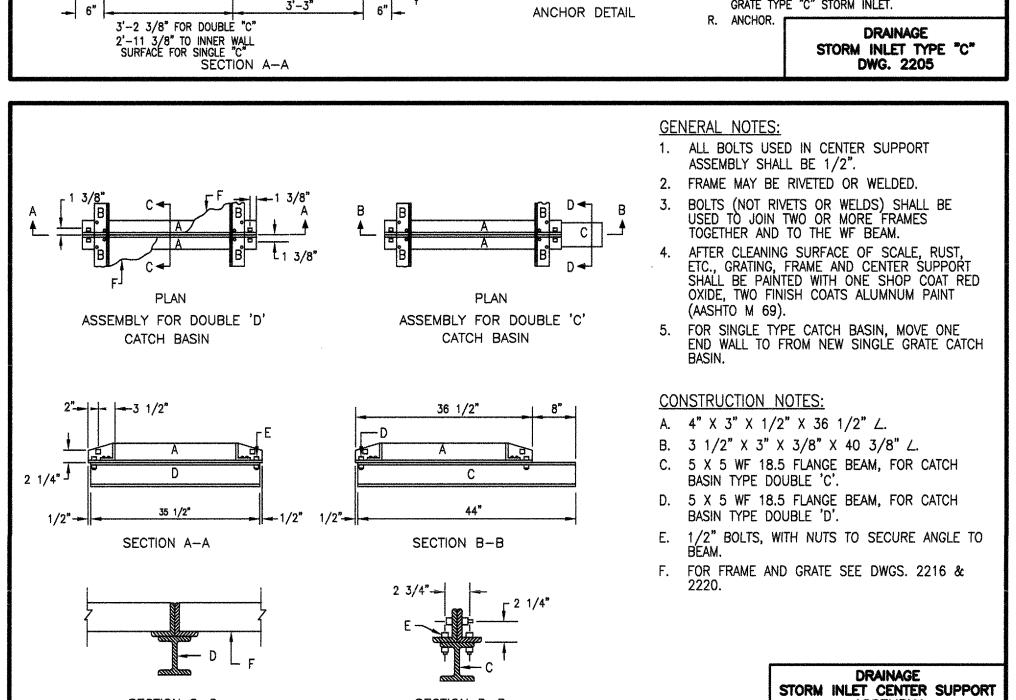
EACH SIDE OF CATCH BASIN, WHEN INSTALLING AT SAG POINT IN INSTALLINGS OTHER THAN AT

DRAINAGE STORM INLET

GUTTER TRANSITION DWG. 2207

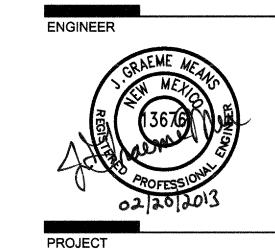
CONSTRUCTION NOTES:





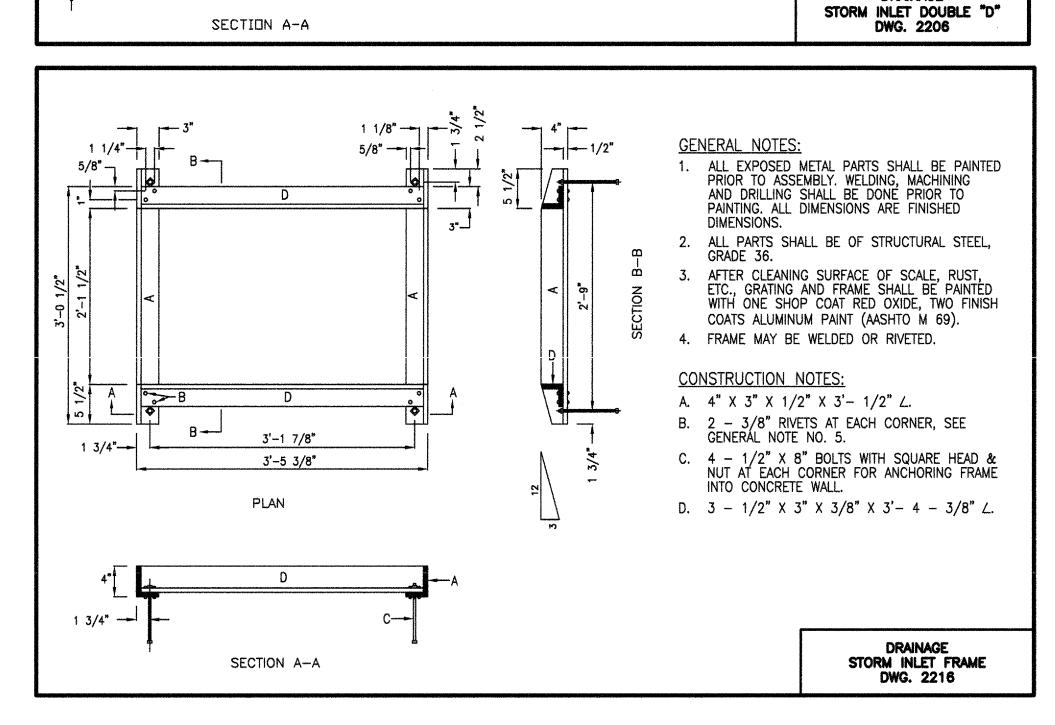
SECTION D-D

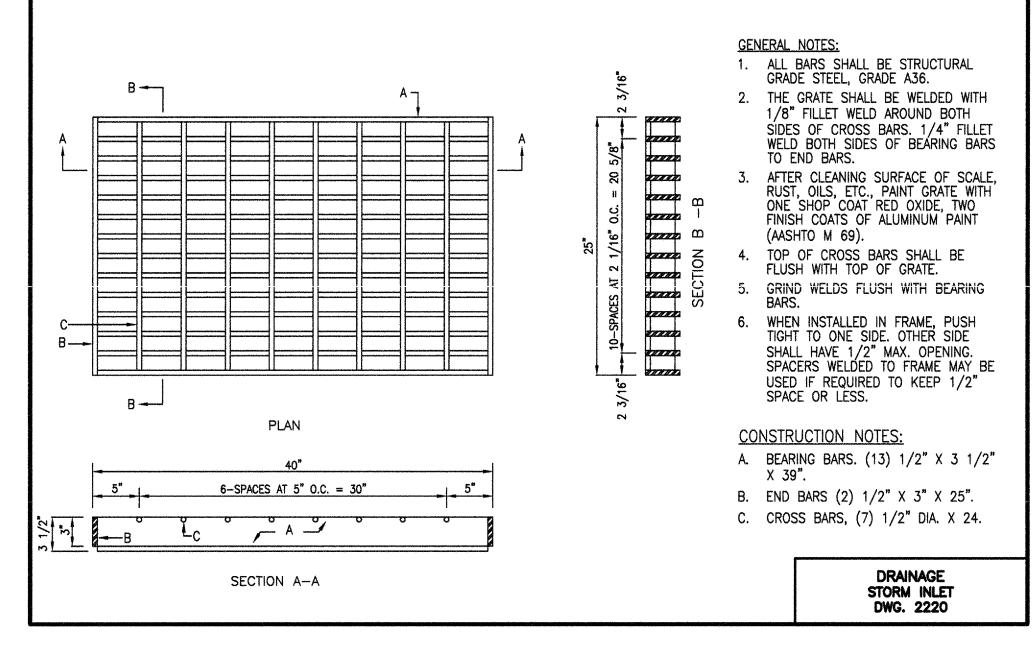


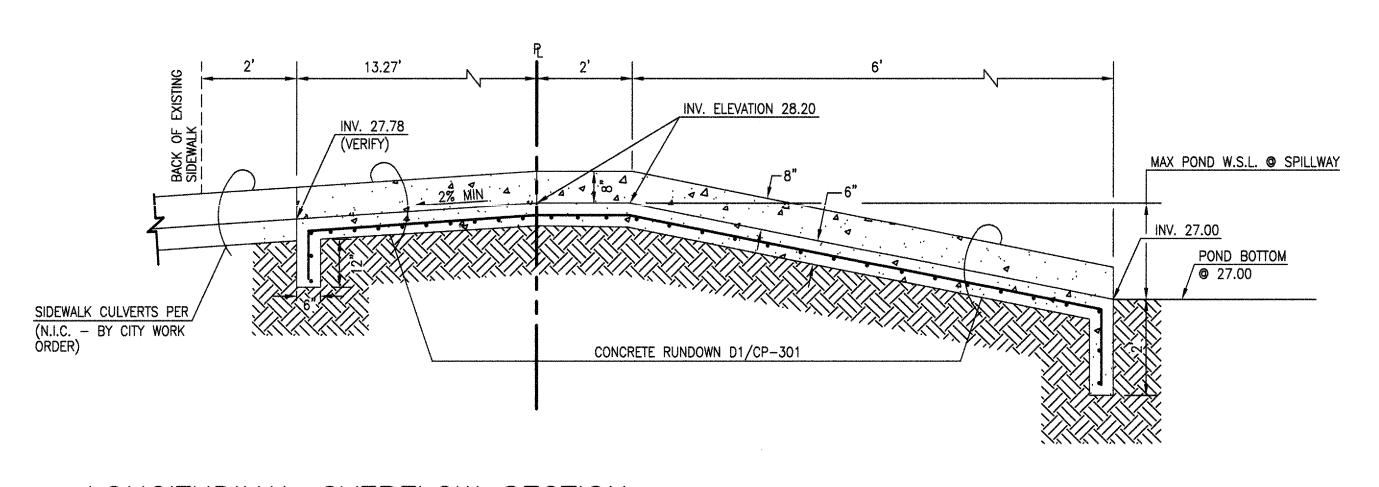


DEL NORTE HIGH SCHOOL 5323 MONTGOMERY NE ALBUQUERQUE, NM

INDUSTRIAL AND FINE ARTS BUILDING





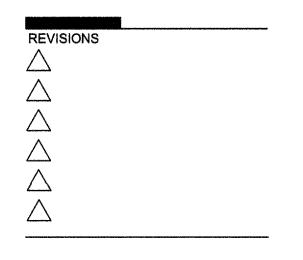


ASSEMBLY DWG. 2215

LONGITUDINAL OVERFLOW SECTION

SECTION C-C

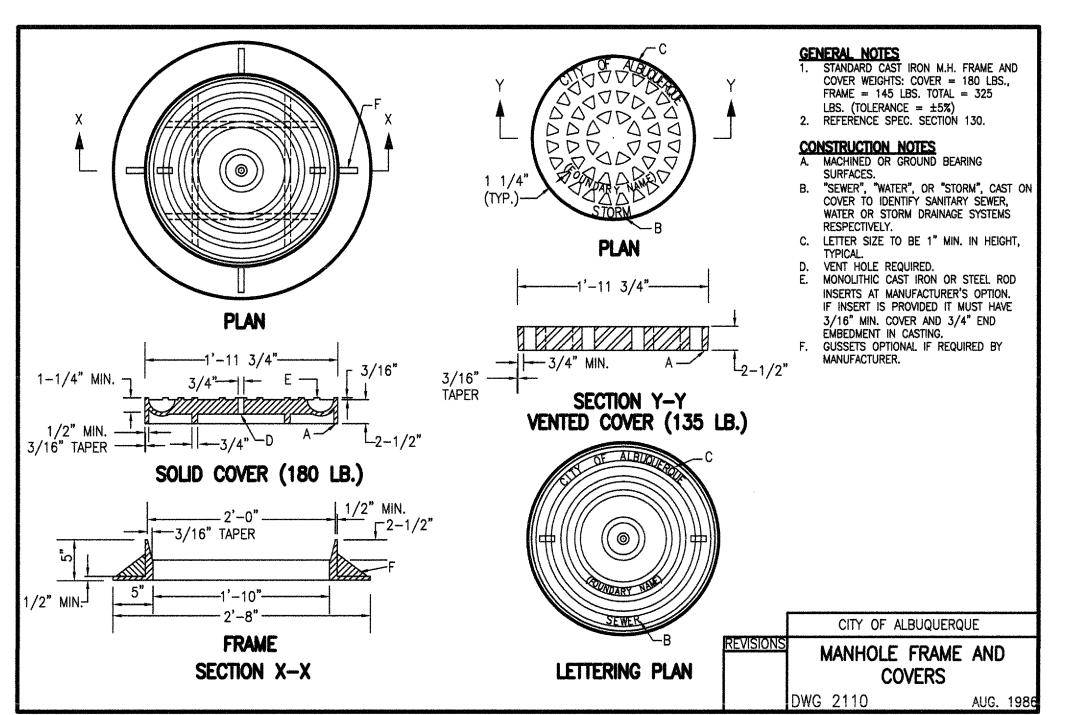
SCALE: 1'' = 2' - 0''

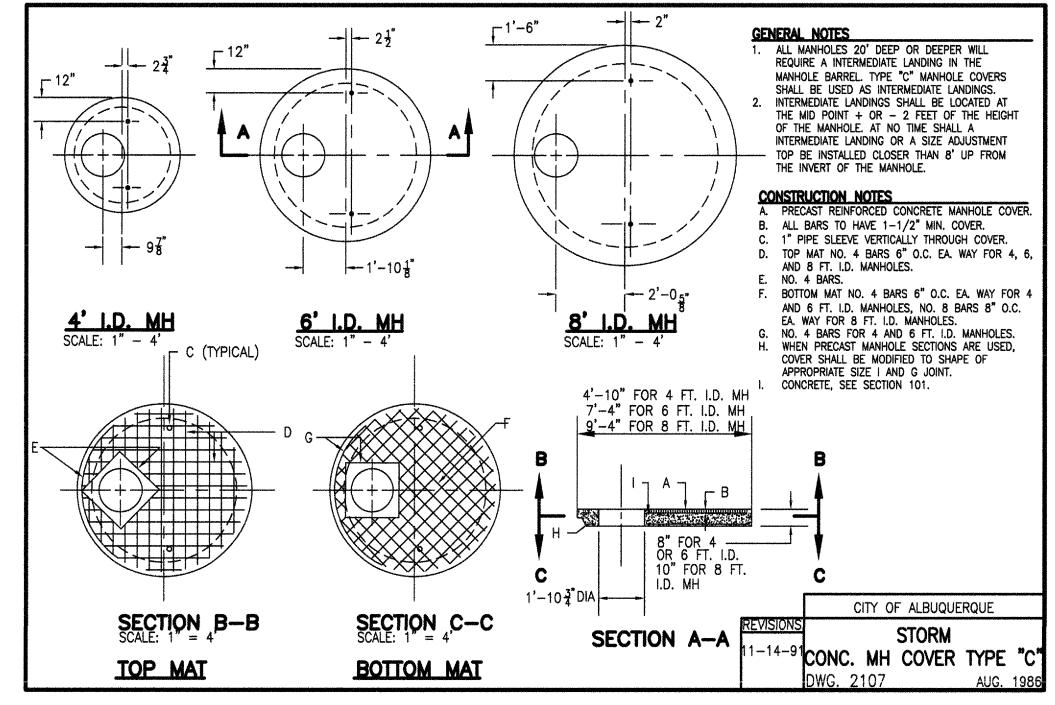


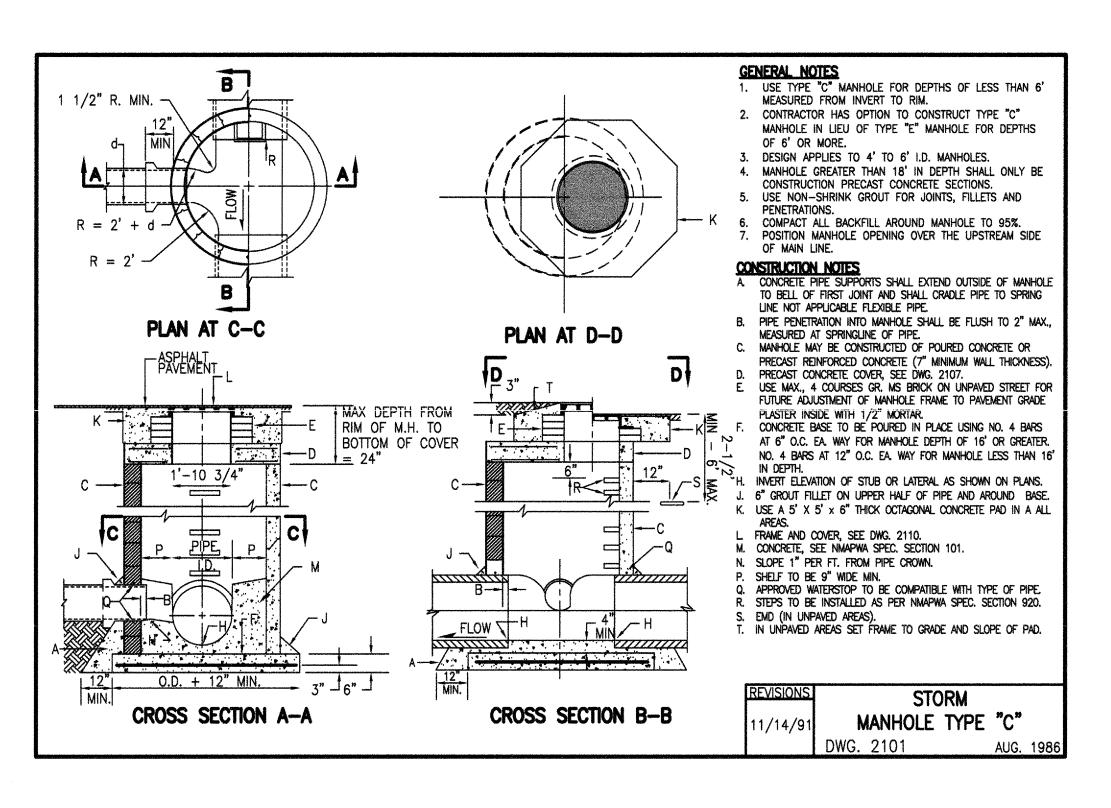
DRAWN BY	J.Y.R.
REVIEWED BY	G.M.
DATE	03-04-2013
PROJECT NO.	08-0041
DRAWING NAME	

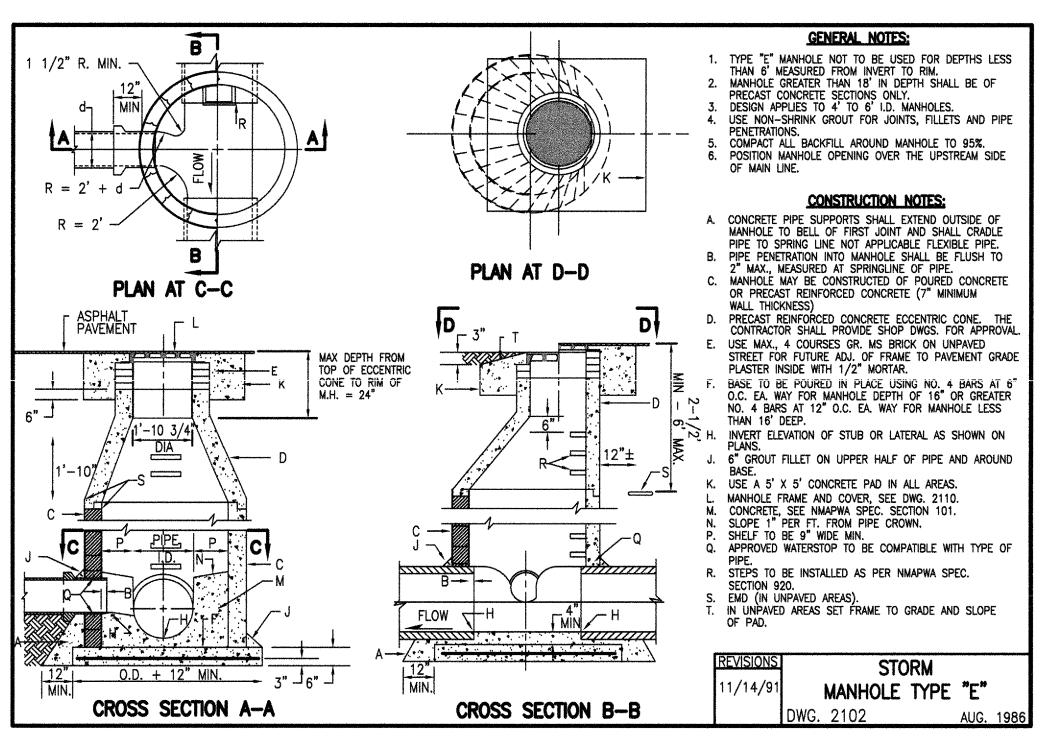
STORM INLET AND DRAINAGE, **SECTIONS AND DETAILS**







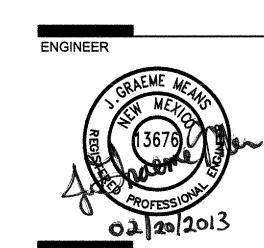






dps@dpsdesign.org

ARCHITECT



DEL NORTE
HIGH SCHOOL
5323 MONTGOMERY NE
ALBUQUERQUE, NM

INDUSTRIAL AND FINE ARTS BUILDING

DRAWN BY	J.Y.R.
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DRAWING NAME	

MANHOLE SECTIONS AND DETAILS

