

DRAINAGE PLAN

I. INTRODUCTION AND EXECUTIVE SUMMARY

THIS PROJECT, LOCATED IN THE NORTHEAST HEIGHTS OF THE ALBUQUERQUE METROPOLITAN AREA, REPRESENTS A MODIFICATION TO AN EXISTING AFS SITE WITHIN AN INFILL AREA. THE PROPOSED DEVELOPMENT IS COMPRISED OF THE CONSTRUCTION OF A NEW PERMANENT BUILDING TO REPLACE CLASSROOM BUILDINGS AND OLDER PERMANENT BUILDINGS. THE PROPOSED DEVELOPMENT WILL BE LOCATED AT THE CENTRAL AND SOUTHWEST PORTIONS OF THE CAMPUS. THE PROPOSED IMPROVEMENTS REFERENCED HEREIN ARE THE FIRST PHASE OF A MULTI-PHASE PROJECT THAT WILL ULTIMATELY ELIMINATE THE EXISTING PERMANENT BUILDINGS AND INCLUDE A NEW PAVED PARKING LOT; THE REMOVAL OF THE EXISTING PERMANENT BUILDINGS AND NEW PARKING LOT CONSTRUCTION WILL BE BY SEPARATE SUBMITTAL.

THE DRAINAGE CONCEPT FOR THIS PROJECT WILL BE THE CONTINUED DISCHARGE OF DEVELOPED RUNOFF TO AN EXISTING ONSITE DETENTION POND AT THE SOUTHWEST CORNER OF THE COMPLEX SITE, WITH CONTROLLED DISCHARGE TO AN EXISTING DOWNSTREAM DRAINAGE EASEMENT.

II. PROJECT DESCRIPTION

AS SHOWN BY THE VICINITY MAP, THE AZTEC COMPLEX IS LOCATED AT THE SOUTHWEST CORNER OF THE INTERSECTION OF EUBANK BLVD NE AND LEXINGTON AVENUE NE. THE CURRENT LEGAL DESCRIPTION IS TRACTS E, AZTEC ELEMENTARY SCHOOL. AS SHOWN BY PANEL 356 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY FEMA FOR BERNALILLO COUNTY, NEW MEXICO, THIS SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE. PRIOR SITE DEVELOPMENT HAS ESTABLISHED A PRECEDENT FOR ONSITE DETENTION PONDING. INASMUCH AS THIS IS A REDEVELOPMENT PROJECT OF AN EXISTING FULLY DEVELOPED SITE, THE EXISTING DRAINAGE PATTERNS AND CONCEPTS SHALL BE MAINTAINED.

III. BACKGROUND DOCUMENTS

THE PREPARATION OF THIS PLAN RELIED UPON THE FOLLOWING DOCUMENTS:

- DRAINAGE SUBMITTAL FOR SIERRA ALTERNATIVE SCHOOL PREPARED BY WILSON & COMPANY, NMPE 11955, DATED 8-12-98. THIS REFERENCED PLAN ESTABLISHED THE CONCEPT FOR THE ONSITE DETENTION OF STORM WATER RUNOFF WITH CONTROLLED DISCHARGE VIA 18" STORM DRAIN OUTLET OF 7.67 CFS TO A DOWNSTREAM DRAINAGE EASEMENT.
- GRADING AND DRAINAGE PLAN FOR DIAGNOSTICIAN CONSULTATION AT AZTEC COMPLEX, PREPARED BY HIGH MESA CONSULTING GROUP, NMPE 8547, DATED 08-28-2010 AND CERTIFIED 12-30-2010. THIS 2010 SUBMITTAL INCLUDED THE RENOVATION OF AN EXISTING PORTABLE CLASSROOM PARK TO SERVE DIAGNOSTICIANS; THESE PORTABLE CLASSROOMS WILL BE REMOVED AND REPLACED WITH PERMANENT BUILDING AS PART OF THE DEVELOPMENT OF THE SITE.
- TOPOGRAPHIC SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS 11184, DATED 11-18-2013. THIS REFERENCED SURVEY PROVIDES THE BASIS FOR THE EXISTING CONDITIONS OF THE PROJECT SITE.

IV. EXISTING CONDITIONS

THE PROJECT SITE PRESENTLY CONSISTS OF SEVERAL EXISTING PERMANENT AND PORTABLE CLASSROOM BUILDINGS. THE SITE IS SERVED BY TWO ASPHALT PAVED PARKING LOTS AT THE NORTHWEST AND NORTHEAST CORNERS OF THE SITE. THE DRAINAGE PATTERN FOR THE SITE ESTABLISHED BY PREVIOUS SUBMITTALS IS SHEETFLOW FROM NORTHEAST TO SOUTHWEST WITH DISCHARGE TO AN EXISTING DETENTION POND LOCATED AT THE SOUTHWEST CORNER OF THE SITE, AND CONTROLLED DISCHARGE FROM THE POND TO AN EXISTING DOWNSTREAM DRAINAGE EASEMENT.

THERE ARE NO APPARENT OFFSITE FLOWS IMPACTING THIS SITE. LEXINGTON AVE NE AND EUBANK BLVD NE, FULLY DEVELOPED CITY STREETS, LIE TO THE NORTH AND EAST WITH FLOWS APPARENTLY CONFINED TO THE CONSTRUCTED STREETS. EXISTING RESIDENTIAL LOTS TO THE SOUTH AND WEST ARE TOPOGRAPHICALLY LOWER AND APPEAR TO DISCHARGE DEVELOPED RUNOFF TO THE FRONTING CITY STREETS.

V. DEVELOPED CONDITIONS

THE PROPOSED CONSTRUCTION CONSISTS OF A NEW PERMANENT BUILDING AND PAVED ACCESS AND PARKING IMPROVEMENTS TO REPLACE EXISTING PERMANENT BUILDINGS AND PORTABLE CLASSROOM BUILDINGS. THE DEVELOPED CONDITIONS DEPICTED HEREIN ARE PART OF A MULTI-PHASE PROJECT, WHEREIN THE PORTABLE CLASSROOM BUILDINGS WILL BE REMOVED PRIOR TO CONSTRUCTION OF THE NEW BUILDING, AND REMOVAL OF THE EXISTING PERMANENT BUILDINGS WILL OCCUR IN A FUTURE PHASE BY SEPARATE SUBMITTAL. RUNOFF FROM THE SITE WILL CONTINUE TO GENERALLY SHEETFLOW FROM EAST TO WEST AND NEW PRIVATE STORM DRAIN IMPROVEMENTS WILL BE CONSTRUCTED TO COLLECT AND CONVEY RUNOFF DIRECTLY TO THE ONSITE PRIVATE DETENTION POND AT THE SOUTHWEST CORNER OF THE SITE. THE PROPOSED IMPROVEMENTS WILL RESULT IN A MINOR DECREASE IN PEAK DISCHARGE AND VOLUME OF RUNOFF GENERATED BY THE SITE.

THE EXISTING RETENTION POND WILL BE REGRADED TO INCREASE PONDING CAPACITY. IN ADDITION, THE BOTTOM OF THE POND WILL BE LOWERED BELOW THE EXISTING STORM DRAIN OUTLET, RESULTING IN A RETENTION CAPACITY OF 29,460 CF. AS A RESULT, THE 2 YEAR, 24 HOUR DEVELOPED RUNOFF (20,870 CF) GENERATED BY THE SITE WILL BE RETAINED ONSITE, WHICH WILL ALSO MEET THE CONDITION OF MANAGING AND CONTROLLING THE FIRST FLUSH OF DEVELOPED RUNOFF DUE TO THE NEW IMPERVIOUS AREAS, AS WELL AS LEED REQUIREMENTS FOR STORMWATER QUANTITY AND QUALITY. THE EXISTING 18" STORM DRAIN OUTLET PIPE WILL NOT BE MODIFIED, AND WILL CONTINUE TO CONTROL DISCHARGE TO THE DOWNSTREAM DRAINAGE EASEMENT. AS DETERMINED BY AHYMO RESERVOIR ROUTING, THE 100-YEAR RELEASE RATE WILL BE 2.2 CFS WHICH IS MUCH LESS THAN THE PREVIOUSLY APPROVED 7.67 CFS RATE ESTABLISHED IN THE 1998 DRAINAGE PLAN REFERENCED ABOVE.

THERE WILL CONTINUE TO BE NO APPARENT OFFSITE FLOWS IMPACTING THE SITE AS A RESULT OF THESE DEVELOPED CONDITIONS.

VI. GRADING PLAN

THE GRADING PLAN SHOWS 1.) EXISTING AND PROPOSED GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS, 2.) THE LIMIT AND CHARACTER OF THE EXISTING AND PROPOSED IMPROVEMENTS, AND 3.) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES. AS SHOWN BY THIS PLAN, THE PROPOSED GRADING WILL DIRECT DEVELOPED RUNOFF TO THE EXISTING ONSITE PRIVATE DETENTION POND.

VII. CALCULATIONS

THE CALCULATIONS CONTAINED HEREON ANALYZE THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR AND THE 2-YEAR, 24-HOUR RAINFALL EVENTS. THE PROCEDURE FOR 40 ACRE AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, DATED JANUARY 1993, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED. AS DEMONSTRATED BY THESE CALCULATIONS, THE PROPOSED DEVELOPMENT WILL RESULT IN A MINOR DECREASE IN THE DEVELOPED RUNOFF GENERATED BY THE AZTEC COMPLEX SITE. IN ADDITION THE AVERAGE END AREA METHOD WAS USED TO QUANTIFY THE CAPACITY OF THE REGRADED PRIVATE DETENTION POND, AND MANNING'S EQUATION WAS USED TO CALCULATE THE CAPACITY OF THE PROPOSED PRIVATE STORM DRAIN SYSTEM. AHYMO CALCULATIONS ROUTING THE SITE RUNOFF THROUGH THE DETENTION POND WERE RUN TO DEMONSTRATE THAT THE A PEAK DISCHARGE OF 2.2 CFS WILL DISCHARGE THROUGH THE EXISTING 18" STORM DRAIN OUTLET DURING A 100-YEAR STORM EVENT, WELL BELOW THE 7.67 CFS ALLOWABLE DISCHARGE RATE ESTABLISHED BY PRIOR SUBMITTAL.

VIII. CONCLUSIONS

THE FOLLOWING CONCLUSIONS HAVE BEEN ESTABLISHED AS A RESULT OF THE EVALUATIONS CONTAINED HEREIN:

- THE PROPOSED IMPROVEMENTS ARE CONSISTENT WITH THE CONCEPT FOR DETENTION PONDING ESTABLISHED BY PRIOR SUBMITTALS
- THE PROPOSED IMPROVEMENTS WILL RESULT IN A MINOR DECREASE IN DEVELOPED PEAK DISCHARGE AND VOLUME OF RUNOFF GENERATED BY THE SITE
- THE REGRADED POND WILL RETAIN THE 2-YEAR, 24 HOUR RAINFALL EVENT, THEREFORE THE CONDITION OF MANAGING AND CONTROLLING THE FIRST FLUSH OF DEVELOPED RUNOFF FROM NEW IMPERVIOUS AREAS WILL BE MET
- THE EXISTING 18" STORM DRAIN OUTLET FOR THE SITE WILL NOT BE MODIFIED BY THE SITE DEVELOPMENT, MAINTAINING THE CONTROLLED DISCHARGE FROM THE SITE TO THE DOWNSTREAM DRAINAGE EASEMENT.

STORM DRAIN HYDRAULICS					
PIPE ID	Mannings Coefficient	Slope (ft/ft)	Diameter (in)	Maximum Discharge (cfs)	Discharge Full (cfs)
A	0.013	0.0234	24	37.2	34.6
B	0.013	0.0200	24	34.4	32.0
C	0.013	0.0105	24	24.9	23.2
D	0.013	0.0112	30	46.7	43.4
E	0.013	0.0054	30	32.4	30.1
F	0.013	0.0142	30	52.6	48.9
G	0.013	0.0142	12	4.6	4.3
H	0.013	0.0085	30	40.7	37.8
I	0.013	0.0111	30	46.5	43.2

POND VOLUME BY ELEVATION				
ELEV FT	AREA SF	VOL CF	VOL CF	VOL AC-FT
81.20	12070	0	0	0.00
82.00	21490	13420	13420	0.31
82.70	24350	16040	29460	0.68
83.00	25870	7530	36990	0.85
84.00	30500	23180	60170	1.38
85.00	37300	33900	94070	2.16

CALCULATIONS

I. SITE CHARACTERISTICS

A. PRECIPITATION ZONE =	3
B. P _{100, 6 HR} = P ₃₆₀ =	2.6 IN
P _{2, 24 HR} = P ₁₄₀₂ =	1.3 IN
C. TOTAL PROJECT AREA (A _T) =	442,510 SF
	10.16 AC

D. LAND TREATMENTS

TREATMENT	AREA (SF/AC)	%
A		
B	22,250 SF	5
C	217,890 SF	49
D	202,370 SF	46
	4.65 AC	

TREATMENT	AREA (SF/AC)	%
A		
B	123,506 SF	28
C	123,506 SF	28
D	195,498 SF	44
	4.49 AC	

II. HYDROLOGY

A. EXISTING CONDITION 100 YEAR

1. 100-YR STORM

a. VOLUME 100-YR, 6-HR
 $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T$
 $E_W = (0.66 * 0.00) + (0.92 * 0.51) + (1.29 * 5.00) + (2.36 * 4.65) / 10.16 = 1.76 \text{ IN}$
 $V_{100, 6 \text{ HR}} = (E_W / 12) A_T = (1.76 / 12) / 10.16 = 1.4899 \text{ AC-FT} = 64,930 \text{ CF}$

b. VOLUME 100-YR, 24-HR
 $V_{100, 24 \text{ HR}} = V_{6 \text{ HR}} + A_D * (P_{24 \text{ HR}} - P_{6 \text{ HR}}) / 12 \text{ in/ft}$
 $= 1.49 + 4.65 * (3.10 - 2.60) / 12 \text{ in/ft} = 1.6835 \text{ AC-FT} = 73,330 \text{ CF}$

c. PEAK DISCHARGE
 $Q_p = Q_{pA_A} + Q_{pA_B} + Q_{pA_C} + Q_{pA_D}$
 $Q_p = (1.87 * 0.00) + (2.60 * 0.51) + (3.45 * 5.00) + (5.02 * 4.65) = 41.9 \text{ CFS}$

2. 2-YR STORM

a. VOLUME
 $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T$
 $E_W = (0.00 * 0.00) + (0.06 * 0.51) + (0.20 * 5.00) + (0.89 * 4.65) / 10.16 = 0.51 \text{ IN}$
 $V_{2, 6 \text{ HR}} = (E_W / 12) A_T = (0.51 / 12) / 10.16 = 0.4317 \text{ AC-FT} = 18,810 \text{ CF}$

b. VOLUME 2-YR, 24-HR
 $V_{2, 24 \text{ HR}} = V_{2, 6 \text{ HR}} + A_D * (P_{24 \text{ HR}} - P_{2, 6 \text{ HR}}) / 12 \text{ in/ft}$
 $= 0.43 + 4.65 * (1.35 - 1.13) / 12 \text{ in/ft} = 0.5158 \text{ AC-FT} = 22,470 \text{ CF}$

c. PEAK DISCHARGE
 $Q_p = Q_{pA_A} + Q_{pA_B} + Q_{pA_C} + Q_{pA_D}$
 $Q_p = (0.00 * 0.00) + (0.21 * 0.51) + (0.78 * 5.00) + (2.04 * 4.65) = 13.5 \text{ CFS}$

B. DEVELOPED CONDITION

1. 100-YR STORM

a. VOLUME
 $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T$
 $E_W = (0.66 * 0.00) + (0.92 * 2.84) + (1.29 * 2.84) + (2.36 * 4.49) / 10.16 = 1.66 \text{ IN}$
 $V_{100, 6 \text{ HR}} = (E_W / 12) A_T = (1.66 / 12) / 10.16 = 1.4053 \text{ AC-FT} = 61,210 \text{ CF}$

b. VOLUME 100-YR, 24-HR
 $V_{100, 24 \text{ HR}} = V_{6 \text{ HR}} + A_D * (P_{24 \text{ HR}} - P_{6 \text{ HR}}) / 12 \text{ in/ft}$
 $= 1.41 + 4.49 * (3.10 - 2.60) / 12 \text{ in/ft} = 1.5923 \text{ AC-FT} = 69,360 \text{ CF}$

c. PEAK DISCHARGE
 $Q_p = Q_{pA_A} + Q_{pA_B} + Q_{pA_C} + Q_{pA_D}$
 $Q_p = (1.87 * 0.00) + (2.60 * 2.84) + (3.45 * 2.84) + (5.02 * 4.49) = 39.7 \text{ CFS}$

2. 2-YR STORM

a. VOLUME
 $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T$
 $E_W = (0.00 * 0.00) + (0.06 * 2.84) + (0.20 * 2.84) + (0.89 * 4.49) / 10.16 = 0.47 \text{ IN}$
 $V_{2, 6 \text{ HR}} = (E_W / 12) A_T = (0.47 / 12) / 10.16 = 0.3979 \text{ AC-FT} = 17,330 \text{ CF}$

b. VOLUME 2-YR, 24-HR
 $V_{2, 24 \text{ HR}} = V_{2, 6 \text{ HR}} + A_D * (P_{24 \text{ HR}} - P_{2, 6 \text{ HR}}) / 12 \text{ in/ft}$
 $= 0.40 + 4.49 * (1.35 - 1.13) / 12 \text{ in/ft} = 0.4790 \text{ AC-FT} = 20,870 \text{ CF}$

c. PEAK DISCHARGE
 $Q_p = Q_{pA_A} + Q_{pA_B} + Q_{pA_C} + Q_{pA_D}$
 $Q_p = (0.00 * 0.00) + (0.21 * 2.84) + (0.78 * 2.84) + (2.04 * 4.49) = 12.0 \text{ CFS}$

C. COMPARISON 100 YEAR

1. 100-YR STORM

a. VOLUME 100-YR, 6-HR
 $\Delta V_{100, 6 \text{ HR}} = 61210 - 64900 = -3,690 \text{ CF}$ (DECREASE)

b. VOLUME 100-YR, 24-HR
 $\Delta V_{100, 24 \text{ HR}} = 69360 - 73330 = -3,970 \text{ CF}$ (DECREASE)

c. PEAK DISCHARGE
 $\Delta Q_{100} = 39.7 - 41.9 = -2.2 \text{ CFS}$ (DECREASE)

2. 2-YR STORM

a. VOLUME 2-YR, 6-HR
 $\Delta V_{2, 6 \text{ HR}} = 17330 - 18810 = -1,480 \text{ CF}$ (DECREASE)

b. VOLUME 2-YR, 24-HR
 $\Delta V_{2, 24 \text{ HR}} = 20870 - 22470 = -1,600 \text{ CF}$ (DECREASE)

c. PEAK DISCHARGE
 $\Delta Q_2 = 12.0 - 13.5 = -1.5 \text{ CFS}$ (DECREASE)

CONSTRUCTION NOTES:

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1987, PUBLISHED BY THE NEW MEXICO CHAPTER AMERICAN PUBLIC WORKS ASSOCIATION. (REVISED 12/06)
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (NM 811) FOR DESIGNATION (LINE-SPOTTING) OF EXISTING PUBLIC UTILITIES AND EXISTING PRIVATE 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 THE ENGINEER AS REQUIRED ABOVE.
- 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 CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
- UTILITY INFORMATION SHOWN HEREON IS BASED UPON ONSITE SURFACE EVIDENCE, CITY OF ALBUQUERQUE AND ABCWUA DISTRIBUTION MAPS, SCHOOL FILES OF THE ALBUQUERQUE PUBLIC SCHOOLS FACILITIES, DESIGN AND CONSTRUCTION, AND UTILITY LINE-SPOTS PROVIDED BY ONPOINT UTILITY LOCATING SERVICES, SITE UTILITY REPORT DATED 10-21-2013. IN ADDITION, UTILITY LINE-SPOTS WERE REQUESTED VIA THE NEW MEXICO ONE CALL SERVICE (TICKET NO. 2013413318). UTILITY LINES SHOWN ON THIS DRAWING 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, IMPRACISE OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE SURVEYOR 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 PROPERTY OWNER, DEVELOPER, OR CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE PROPERTY OWNER, DEVELOPER, OR 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 DRAINAGE TO AVOID ANY PONDING ADJACENT TO THE STRUCTURE. FOR CONSTRUCTION DETAILS, REFER TO LANDSCAPING PLANS.
- REFER TO SHEETS CG-100 AND CG-101 FOR GENERAL NOTES THAT APPLY TO ALL SHEETS.

EROSION CONTROL MEASURES:

- 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.
- CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY, AND FILE A NOTICE OF INTENT (N.O.I.) ON BEHALF OF THEMSELVES AND THE OWNER WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION. THE OWNER WILL PROVIDE THE SWPPP.

LEGEND

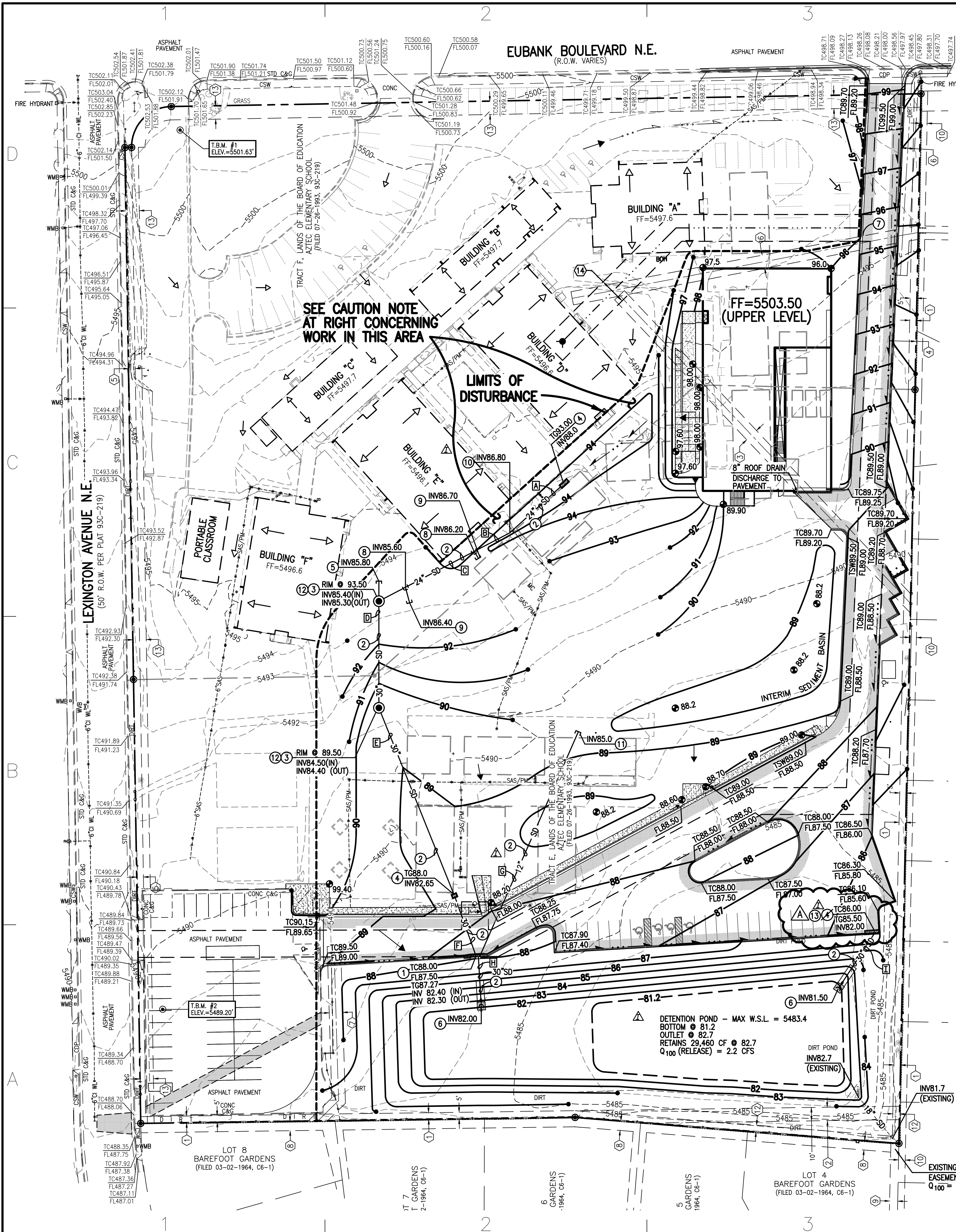
ACD AIR CONDITIONER DRAIN	OHM OVERHEAD UTILITY MAST	INV INVERT
AP ASPHALT	PB CONCRETE WHEEL STOP	TA TOP OF ASPHALT PAVEMENT
AS ASPHALT	PE PLAYGROUND EQUIPMENT	TC TOP OF CURB
ASPH ASPHALT	PI PAINTED PARKING LOT ISLAND	TG TOP OF GRADE
BBC BASKETBALL GOAL	PLT PLANTER	EXISTING SPOT ELEVATION
BOH BUILDING OVERHANG	PS PAINTED PARKING STRIPE	PROPOSED SPOT ELEVATION
BOL BOLLARD	PT PICNIC TABLE	EXISTING FLOWLINE
BWP BRICK PLANTER WALL	RD ROOF DRAIN	PROPOSED FLOWLINE
BR BRICK	ROW ROW OF CONCRETE	EXISTING CONTOUR
BW BRICK WALL	WHEEL STOP	PROPOSED CONTOUR
C&G CURB AND GUTTER	RRT RAILROAD CROSSING	EXISTING DIRECTION OF FLOW
C/P/M COMMUNICATION LINE BY PAINT MARK	SAS SANITARY SEWER	PROPOSED DIRECTION OF FLOW
CAM SECURITY CAMERA	SAS/P/M SANITARY SEWER LINE	RIGHT OF WAY LINE
CAP IRON PIPE, CAPPED	SB BY PAINT MARK	PUBLIC EASEMENT LINE
CC CONCRETE CURB	SD STORM DRAIN	PROPOSED STORM DRAIN
CCAB COMMUNICATION CABINET	SDI STORM DRAIN INLET	PROPOSED INFILTRATION PIT
COND CONDUIT	SDP SERVICE DROP POLE	PROPOSED STORM INLET
CDP CONCRETE DRIVE PAD	SH ASPHALT SPEED HUMP	PROPOSED STORM DRAIN MANHOLE
CF LANDSCAPING CRUSHER FINES	STD STANDARD	EXISTING STORM DRAIN MANHOLE
CLD CAST IRON PIPE	SW CONCRETE SIDEWALK	EXISTING FIRE HYDRANT
CLDD CENTERLINE DOUBLE DOOR	SWC SIDEWALK CURB	PROPOSED FIRE HYDRANT
CLF CHAIN LINK FENCE	TC TOP OF ASPHALT	EXISTING FIRE HYDRANT
CMH COMMUNICATION MANHOLE	TCO TOP OF CONCRETE	FIRE DEPARTMENT CONNECTION
CNR COMMUNICATION RISER	TG TOP OF GRADE	EXISTING SAS MANHOLE
CMS CONCRETE MOW STRIP	TRN ELECTRIC TRANSFORMER	PROPOSED SAS MANHOLE
CMU CONCRETE BLOCK WALL	TS TRAFFIC SIGN	EXISTING VALVE BOX
CND ELECTRIC CONDUIT	TW TOP OF WALL	PROPOSED VALVE BOX
CQ CLEANOUT	W WOOD	EXISTING DOUBLE CLEANOUT
CONC CONCRETE	W/P WITRIFIED CLAY PIPE	PROPOSED DOUBLE CLEANOUT
CPW CONCRETE PIPE	VP VENT PIPE	EXISTING SINGLE CLEANOUT
CP CONCRETE PLANTER WALL	W/PM WATER LINE BY PAINT MARK	PROPOSED SINGLE CLEANOUT
COR CONCRETE RAMP	WCR CONCRETE WHEELCHAIR RAMP	EXISTING WATER SERVICE
CS CONCRETE STEP	WDF WOOD FENCE	PROPOSED WATER SERVICE
CSW CONCRETE SIDEWALK	WDS WOOD STEPS	EXISTING WATER LINE
CTC CONCRETE TRASH CAN	WF WATER FAUCET	EXISTING SANITARY SEWER LINE
CV COMMUNICATION VAULT	WHB WATER HOT BOX	PROPOSED SANITARY SEWER LINE
CVC COVERED CONCRETE	WL WATER LINE	EXISTING FIRE LINE
CWK COVERED CONCRETE	WLN WOOD LANDING	EXISTING POST INDICATOR VALVE
DO DOUBLE CLEANOUT	WLP WOOD LIGHT POLE	PROPOSED POST INDICATOR VALVE
DGT DOUBLE GATE	WMB WOOD METER BOX	RETAINING WALL
DPC DOUBLE PIPE	WMP WOOD POWER POLE	PROPOSED CONCRETE
E/P/M ELECTRIC LINE BY PAINT MARK	WPP/SL WOOD POWER POLE WITH STREET LIGHT	PROPOSED ASPHALT PAVING
EA EDGE OF ASPHALT	WS WOOD SHED	STABILIZED CRUSHER FINES
EB ELECTRIC BREAKER BOX	WV WATER VALVE	
EM ELECTRIC METER	WVB WATER VALVE BOX	
EP ELECTRIC PANEL	* PAINTED UTILITY MARKER	
EPB ELECTRIC PULLBOX	0.5" TREE TRUNK DIAMETER	
EXH BUILDING EXHAUST UNIT	DECIDUOUS TREE	
FL FLOWLINE	SMALL DECIDUOUS TREE	
FP FLAG POLE	CONIFEROUS TREE	
GA GAS LINE BY PAINT MARK	SMALL GROUP OF TREES	
GLR GAS LINE TO ROOF	SHRUB	
GLM GAS METER	SMALL SHRUB	
GPR GAS PRESSURE RELIEF VALVE	HANDICAPPED PARKING SPACE	
GRV GRAVEL		
GS GATE		
GTS GATE STOP POST		
GVB GAS VALVE BOX		
HCP HANDICAPPED PARKING SIGN		
HDE HIGH-DENSITY POLYETHYLENE		
HT HEATER		
ICB IRRIGATION CONTROL BOX		
INV PIPE INVERT		
IVB IRRIGATION VALVE BOX		
MB METAL BENCH		
MBC METAL BUILDING COLUMN		
MC METER CAN WITH HOSE BIB		
MH MANHOLE		
MHR METAL HAND RAIL		
MLN METAL LANDING		
MLP METAL LIGHT POLE		
MPP METAL POWER POLE		
MR METAL RAMP		
MS METAL STEPS		
MSD METAL SHED		
MTC METAL TRASH CAN		
MTS METAL SIGN		
OH(1) OVERHEAD COMMUNICATION (# OF LINES)		
OHE(1) OVERHEAD ELECTRIC (# OF LINES)		

INDEX OF DRAWINGS

SHEET

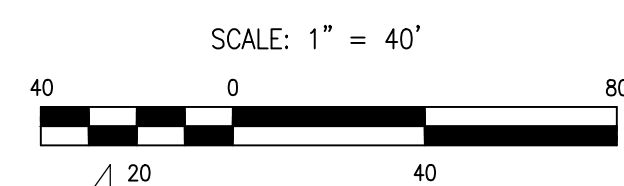
DESCRIPTION

- C-001 VICINITY MAP, D



GENERAL NOTES

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED, BE PROVIDED FOR HEREON, BE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1987, PUBLISHED BY THE NEW MEXICO CHAPTER AMERICAN PUBLIC WORKS ASSOCIATION. (REVISED 12/06)
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE-SPOTTING) OF EXISTING PUBLIC UTILITIES AND EXISTING UTILITIES OWNED AND OPERATED BY ALBUQUERQUE PUBLIC SCHOOLS.
- UTILITY INFORMATION SHOWN HEREON IS BASED UPON ON-SITE SURFACE EVIDENCE, CITY OF ALBUQUERQUE AND ABOVIA DISTRIBUTION MAPS, SCHOOL FILES OF THE ALBUQUERQUE PUBLIC SCHOOLS, FACILITIES, DESIGN AND CONSTRUCTION, AND UTILITY LINE-SPOTS PROVIDED BY ONPOINT UTILITY LOCATING SERVICES, SITE UTILITY REPORT DATED 10-21-2013. IN ADDITION, UTILITY LINE-SPOTS WERE REQUESTED VIA THE NEW MEXICO ONE CALL SERVICE (TICKET NO. 2013413318). UTILITY LINES SHOWN ON THIS DRAWING 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 AT THE TIME CONSTRUCTION COMMENCES. THE SURVEYOR 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 OR WARRANTY, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE PROPERTY OWNER, DEVELOPER, OR CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE PROPERTY OWNER, DEVELOPER, OR 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.
- 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.
- 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.
- 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.
- CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO ENSURE 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 ENGINEER. 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.
- ALL PAVEMENT MARKINGS AND TRAFFIC SIGNS SHALL COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC DEVICES (MUTCD) PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION, LATEST EDITION.
- 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.
- 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 SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT SHALL BE MADE.
- 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 THEREO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT SHALL BE MADE.
- 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.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND/OR INSTALL PIPE 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.
- 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.
- ALL DIMENSIONS AND RADIUS OF CURB, CURB RETURNS, AND WALLS ARE SHOWN TO THE FACE OF CURB AND/OR WALL.
- THE CONTRACTOR SHALL NOTIFY THE OWNER 48 HOURS PRIOR TO STRIPING SO THAT LAYOUT CAN BE VERIFIED.
- 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.
- CONTRACTOR SHALL SECURE, ON BEHALF OF THE OWNER AND OPERATORS, "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY AND FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION.
- ALL FILL SHALL BE CLEAN, FREE FROM VEGETATION, DEBRIS, AND OTHER DELETERIOUS MATERIALS, AND SHALL NOT BE CONTAMINATED WITH HYDROCARBONS OR OTHER CHEMICAL CONTAMINANTS.
- ALL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% ASTM D-1557 UNLESS A GREATER COMPACTION REQUIREMENT IS OTHERWISE SPECIFIED.
- 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.



EASEMENT KEYED NOTES

- #### EASEMENTS
- 5' UTILITY EASEMENT GRANTED BY PLAT C5-45 TO REMAIN
 - 10' UTILITY EASEMENT GRANTED BY PLAT C5-45 TO BE VACATED
 - 10' PNM AND M&T&E EASEMENT GRANTED BY DOCUMENT EXECUTED 03-01-1957 TO BE VACATED
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 - ABCWUA WATER LINE EASEMENT TO BE GRANTED BY FORTHCOMING PLATTING ACTION
 - PNM EASEMENT TO BE GRANTED BY FORTHCOMING PLATTING ACTION
- #### DOCUMENTARY EASEMENT
- NON-SPECIFIC EASEMENT FOR RIGHT-OF-WAY FOR COMMUNICATIONS GRANTED BY DOCUMENT FILED 08-05-1937, BOOK 152, PAGE 133 TO BE VACATED

CAUTION:
"CONTRACTOR TO SHORE AND/OR STABILIZE EXISTING BUILDING DURING EARTHWORK IN THIS AREA, OR VERIFY THAT THE EARTHWORK WILL NOT HAVE ANY DETRIMENTAL AFFECTS ON THE EXISTING BUILDING. CONTRACTOR TO SUBMIT STAMPED SHORING PLANS FOR APPROVAL IF NECESSARY."

- ### LEGEND
- PROPOSED CONCRETE
 - PROPOSED ASPHALT PAVING
 - STORM DRAIN IDENTIFICATION (SEE SHEET C-001 FOR HYDRAULICS)

- ### KEYED NOTES
- CONSTRUCT DOUBLE "C" INLET PER STD DWG 2205, SHEET CG-501
 - INSTALL HDPE STORM DRAIN (ADS N-12), SIZE AS NOTED.
 - CONSTRUCT 4" DIAMETER STORM DRAIN MANHOLE PER STD DWG 2101, SHEET CG-502
 - CONSTRUCT DOUBLE "D" INLET PER STD DWG 2206, SHEET CG-501
 - INSTALL 10 LF 24" HDPE STUB TO EAST WITH PLUG
 - CONSTRUCT POND OUTLET WITH 6'x6' COBBLE SPLASH PAD SHEET CG-501
 - CONSTRUCT 2 FT CURB OPENING FOR RUNOFF FROM PAVEMENT TO FLOW TO NEW DRIVE. INV @ FL95.50
 - INSTALL 24"x24"x18" HDPE TEE, EXTEND 18" HDPE TO INLET
 - INSTALL 18" CAP FOR FUTURE CONNECTION TO BID LOT 3 STORM INLET
 - INSTALL HDPE BEND
 - INSTALL 12" CAP FOR FUTURE CONNECTION TO BID LOT 3 BUILDING ROOF DRAIN
 - PROVIDE VENTED LID PER STD DWG 2110, SHEET CG-502
 - CONSTRUCT TRIPLE "D" INLET PER STD DWG 2205, SHEET CG-501

SURVEY NOTE

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ADDENDUM COMPILATION SET

DRAWING SUBMITTAL:

01	06/21/14	TRANSITION PLAN
02	09/04/14	50% Construction Documents Review Set
03	02/23/15	95% Construction Documents Review Set
04	04/20/15	100% C.O.A. Permit Documents
05	05/05/15	ADDENDUM I
06	06/02/15	ADDENDUM II
07	06/18/15	ADDENDUM III
08	06/22/15	ADDENDUM IV
09	08/03/15	ADDENDUM V
A	08/28/15	MCR #1

PROJECT NO: 2014.037.1

CAD DWG FILE:

DRAWN BY: J.Y.R./S.C.C.

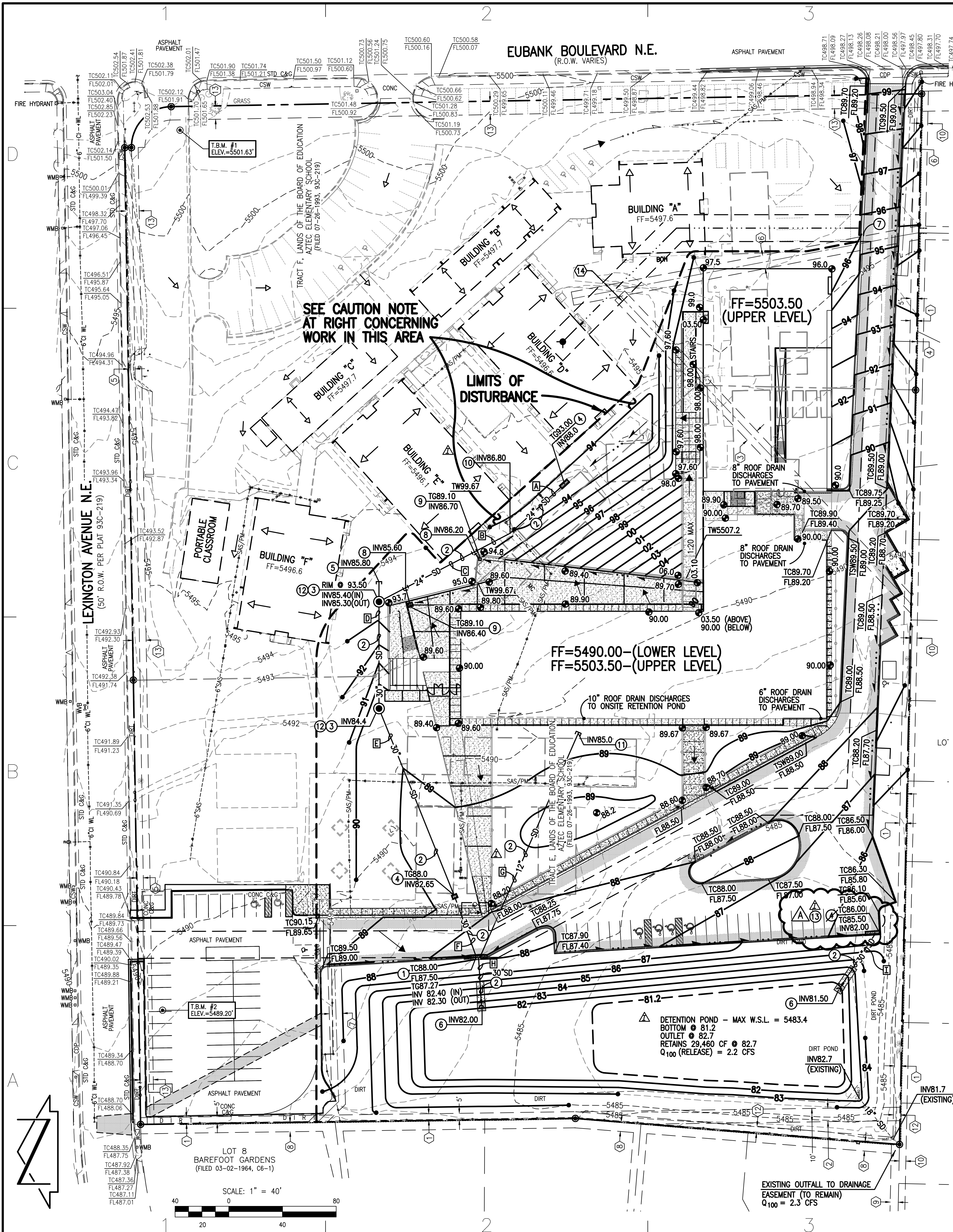
CHK'D BY: G.M.

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SHEET TITLE

OVERALL GRADING PLAN - BASE BID

CG-100



GENERAL NOTES

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EASEMENTS

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- 10' UTILITY EASEMENT GRANTED BY PLAT C5-45 TO BE VACATED
- 10' PNM AND MST&T EASEMENT GRANTED BY DOCUMENT EXECUTED 03-01-1957 TO BE VACATED
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LEGEND

- PROPOSED CONCRETE
- PROPOSED ASPHALT PAVING
- STORM DRAIN IDENTIFICATION (SEE SHEET C-001 FOR HYDRAULICS)

KEYED NOTES

- CONSTRUCT TYPE "C" INLET PER STD DWG 2205, SHEET CG-501
- INSTALL HOPE STORM DRAIN (ADS N-12), SIZE AS NOTED.
- CONSTRUCT 4" DIAMETER STORM DRAIN MANHOLE PER STD DWG 2101, SHEET CG-502
- CONSTRUCT TYPE "A" INLET PER STD DWG 2206, SHEET CG-501
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- CONSTRUCT POND OUTLET WITH 6"x6" COBBLE SPLASH PAD SHEET CG-501
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- INSTALL 24"x24"x18" HOPE TEE, EXTEND 18" HOPE TO INLET
- CONSTRUCT 24"x24" STORM INLET PER TYPICAL SECTION, SHEET CG-501
- INSTALL HOPE BEND
- CONNECT TO BUILDING ROOF DRAIN
- PROVIDE VENTED LID PER STD DWG 2110, SHEET CG-502
- CONSTRUCT TRIPLE "D" INLET PER STD DWG 2205, SHEET CG-501

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2611 Eubank Blvd. Albuquerque, New Mexico 87112

ADDENDUM COMPILATION SET

DRAWING SUBMITTAL:

01	06/21/14	TRANSITION PLAN
02	09/04/14	50% Construction Documents Review Set
03	02/23/15	95% Construction Documents Review Set
04	04/20/15	100% C.O.A. Permit Documents
05	05/05/15	ADDENDUM I
06	06/02/15	ADDENDUM II
07	06/18/15	ADDENDUM III
08	06/22/15	ADDENDUM IV
09	08/03/15	ADDENDUM V
A	08/28/15	MCR #1

PROJECT NO: 2014.037.1

CAD DWG FILE:

DRAWN BY: J.Y.R./S.C.C.

CHK'D BY: G.M.

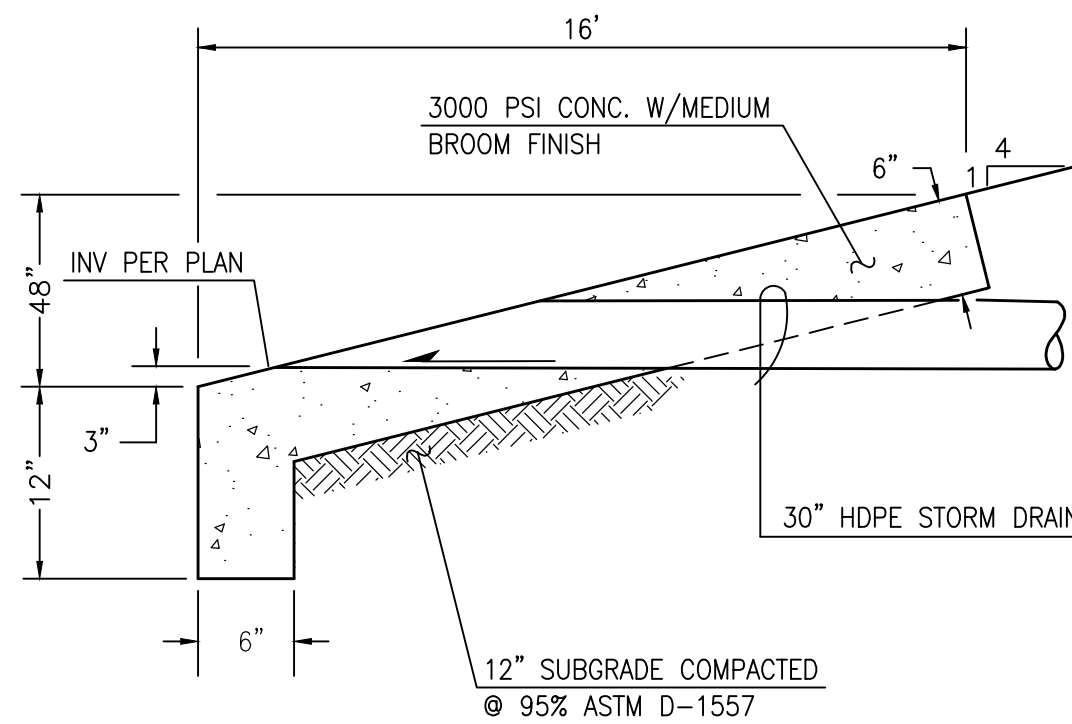
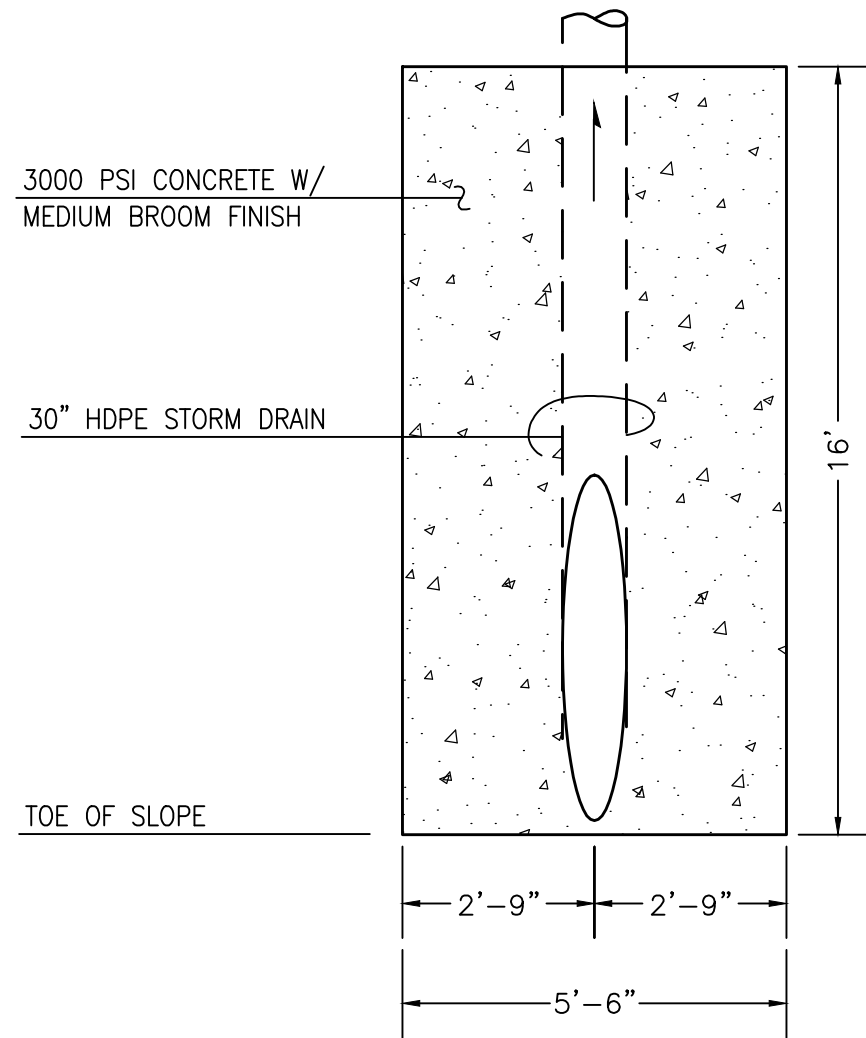
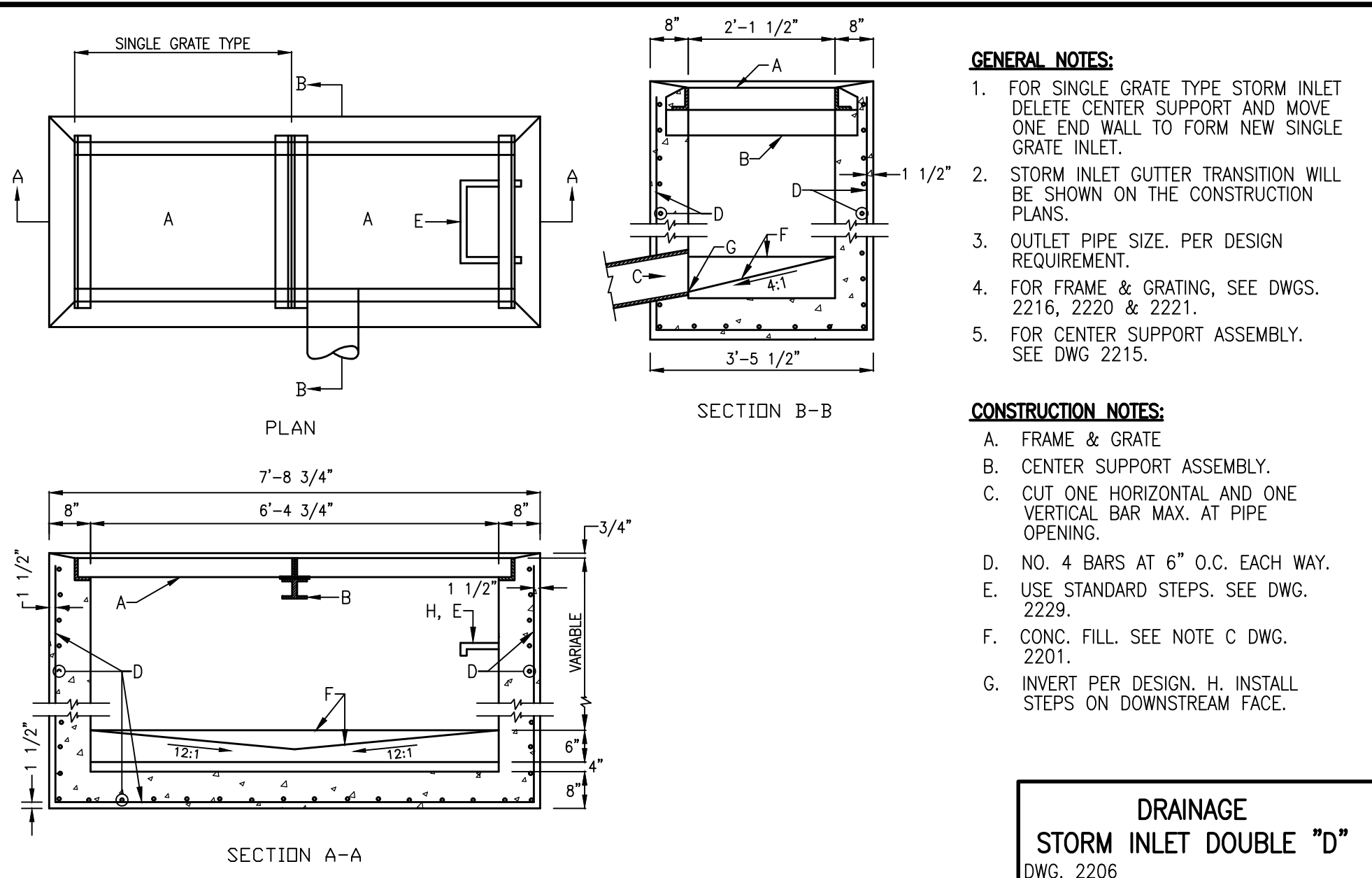
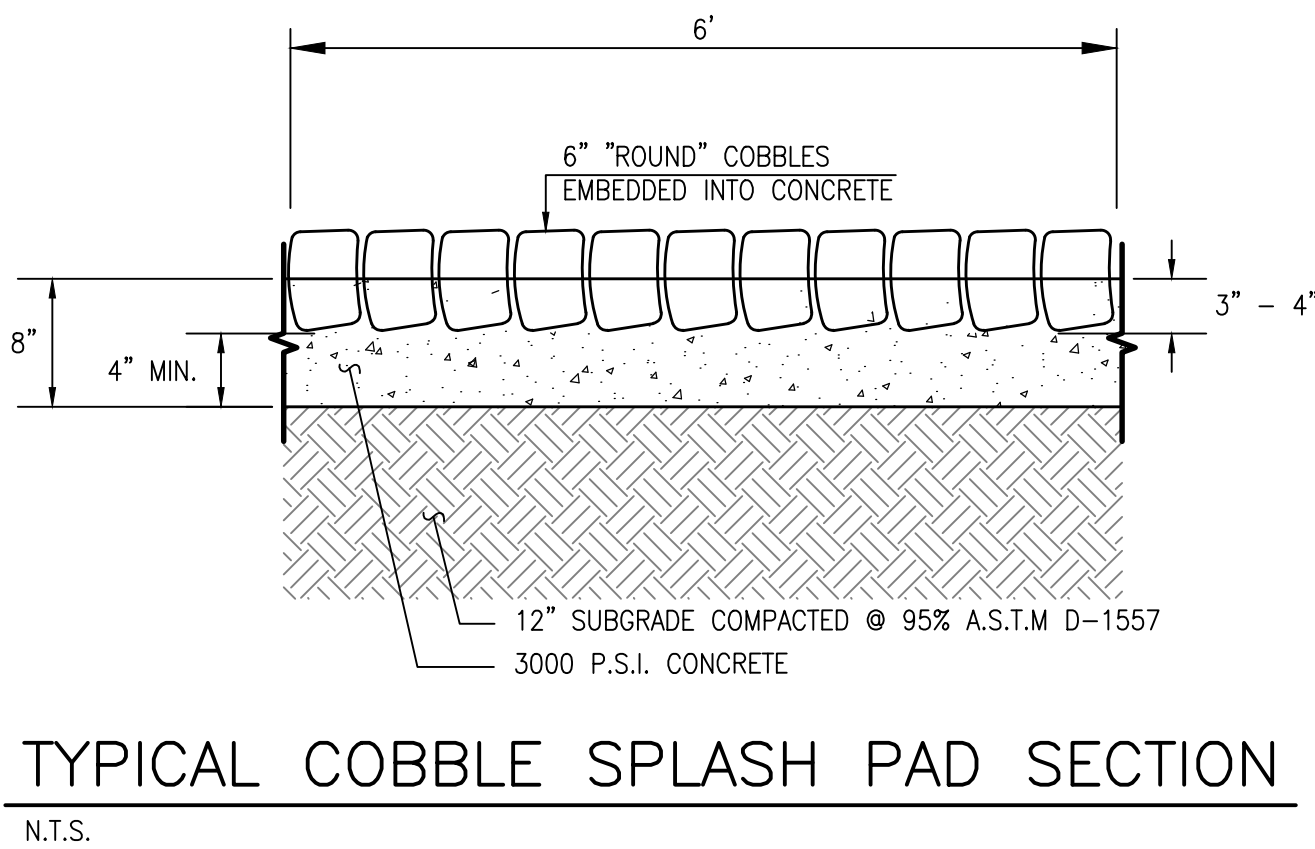
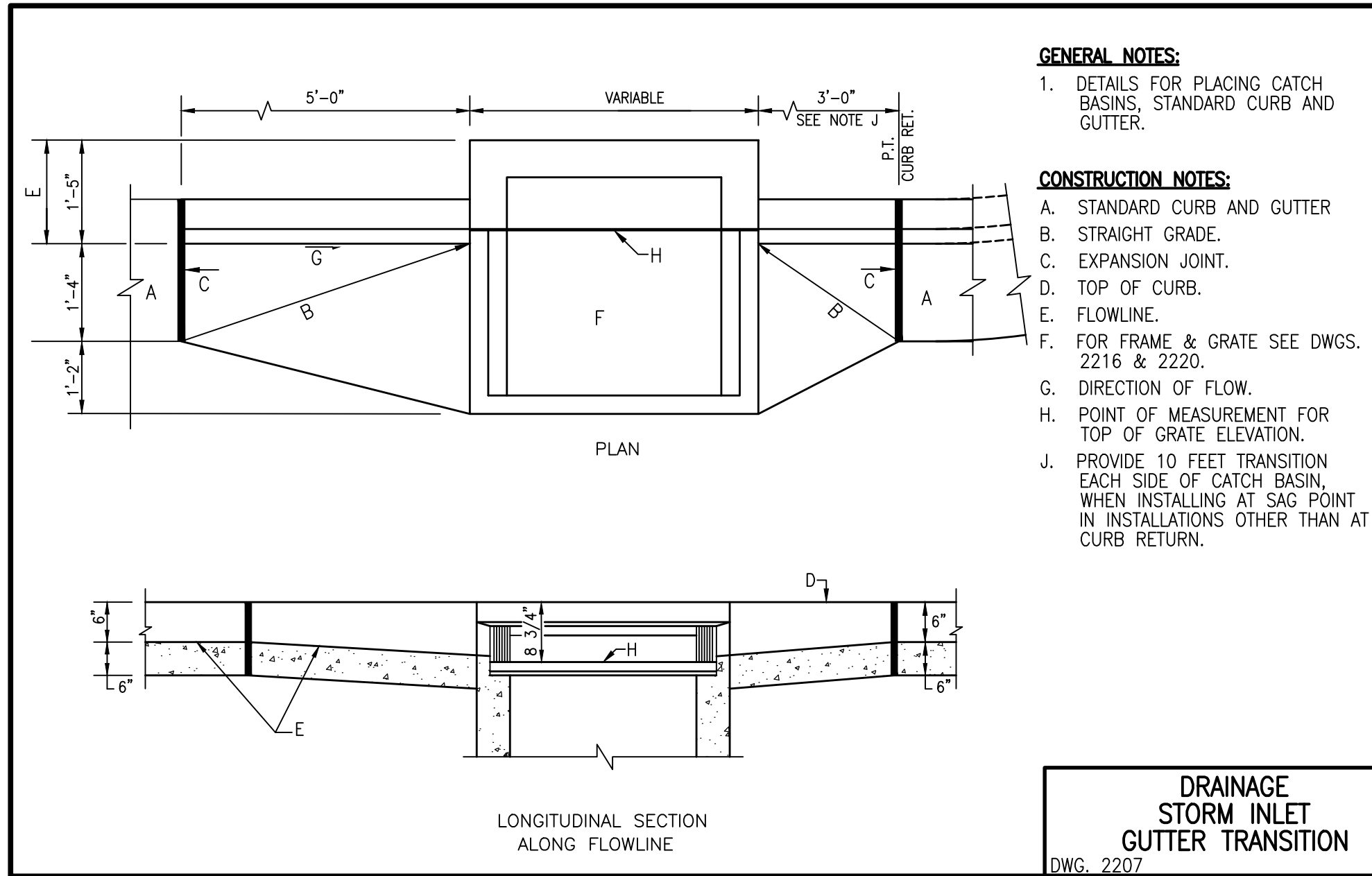
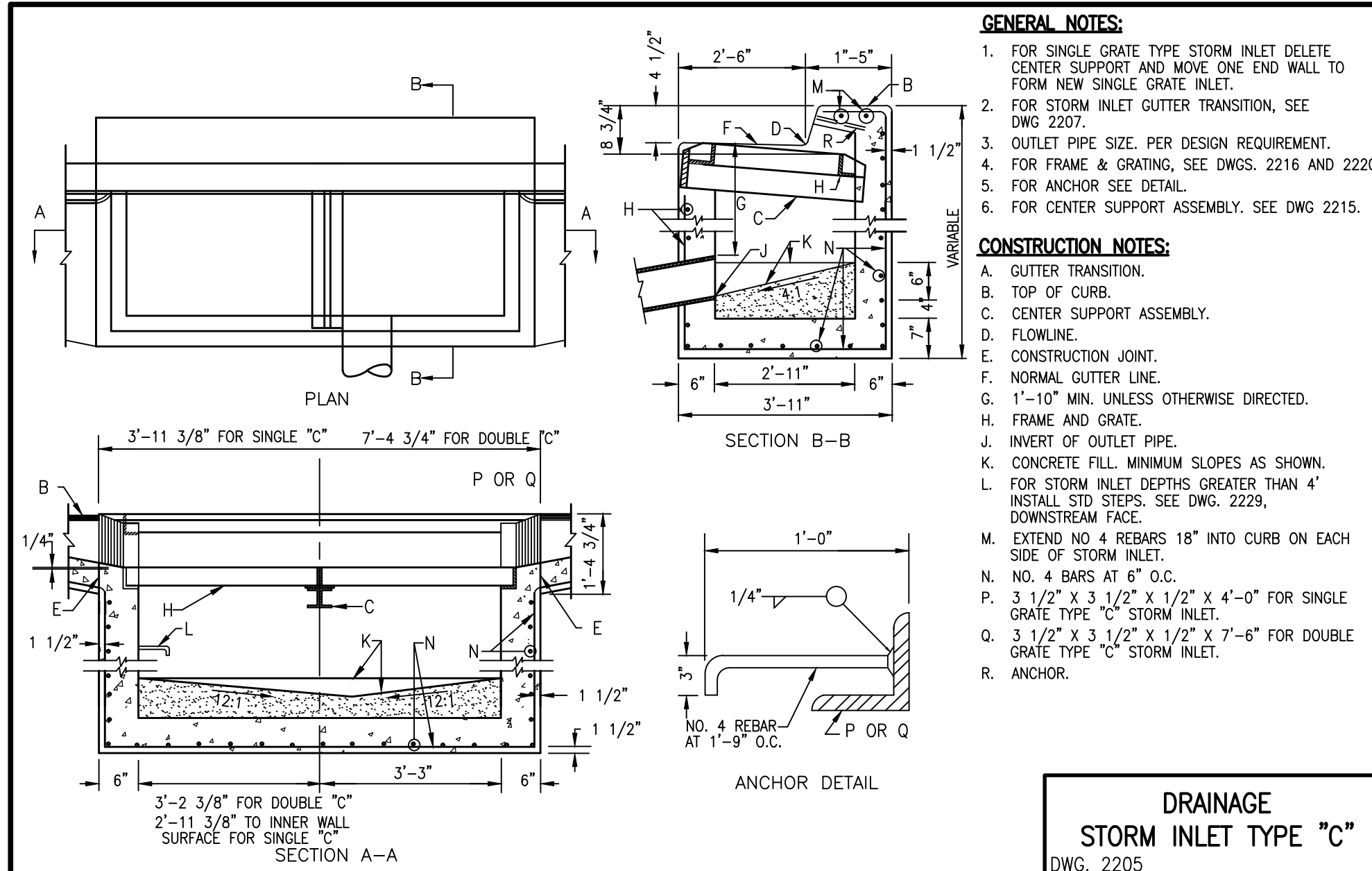
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SHEET TITLE

OVERALL GRADING
(IF BID LOT 3 IS
TAKEN)

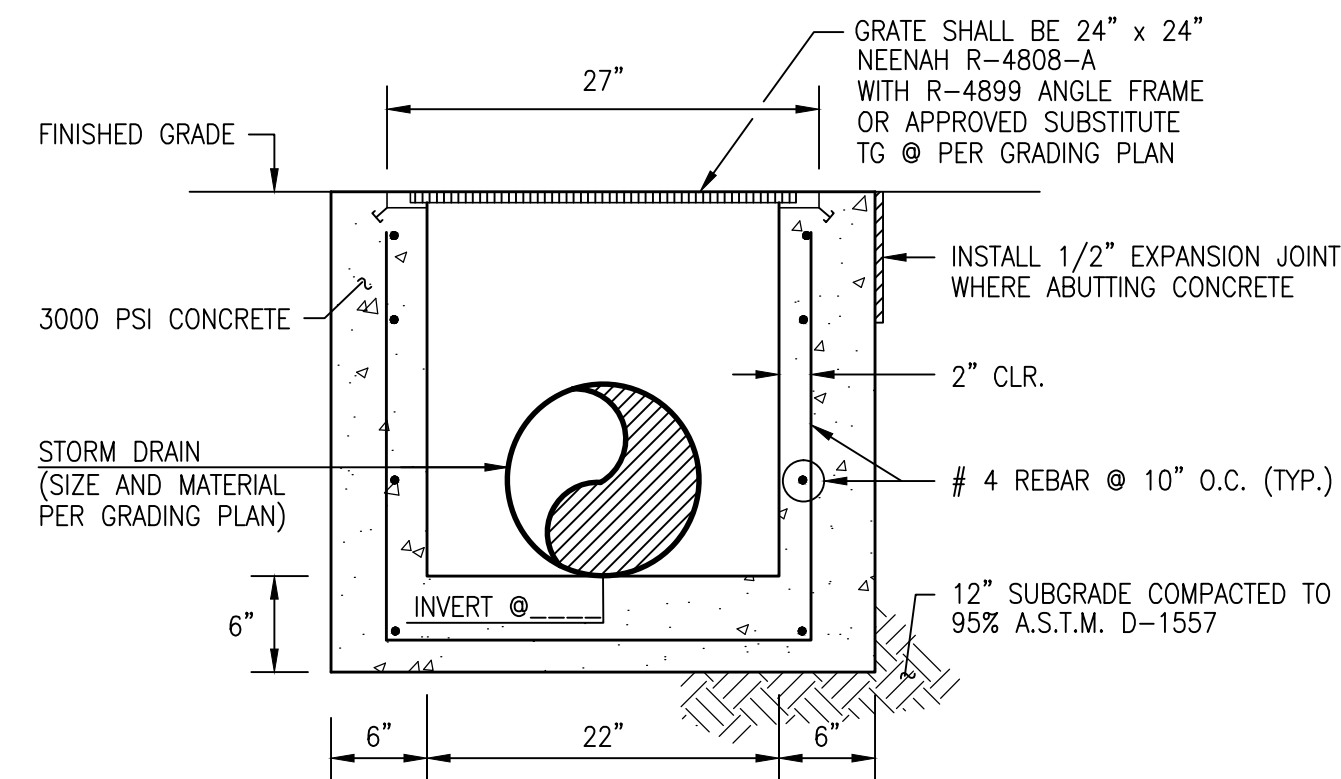
CG-101

File Path: P:\DATA\2014\0371\ENGR\BL\1 Plot Date: 07-31-2015
File Name: 140371_CG-501-BDWG Plot Time: 06:35 am



HDPE PIPE CONSTRUCTION NOTES:

- HDPE PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF AASHTO M 294 TYPE S FOR HDPE STORM DRAIN SYSTEMS.
- JOINTS SHALL BE WATERTIGHT IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM D3212. THE SPIGOTS SHALL HAVE O-RING GASKETS MEETING THE REQUIREMENTS OF ASTM F 477.
- THE CONTRACTOR'S PROJECT SUPERINTENDENT AND FOREMAN OF THE PIPE-LAYING CREW SHALL SUBMIT TO THE OWNER A CERTIFICATE INDICATING COMPLETION OF AN ON-LINE TRAINING PROGRAM OFFERED BY ADS (ADS-PIPE.COM) OR OTHER MANUFACTURER AS APPROVED BY THE OWNER.
- INSTALLATION SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS.
- ALL EXCAVATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 701 OF THE NMAPWA STANDARD SPECIFICATIONS.
- THE PIPE SHALL BE BEDDED IN A FOUNDATION OF COMPACTED GRANULAR MATERIAL THAT IS FREE OF ORGANIC MATTER, CLAY LUMPS, AND OTHER DELETERIOUS MATTER. THIS MATERIAL SHALL EXTEND A MINIMUM OF 6 INCHES BELOW THE OUTERMOST CORRUGATIONS AND BE USED FOR BACKFILL UP TO A MINIMUM OF 1 FOOT ABOVE THE TOP OF PIPE. UNTIL A MINIMUM COVER OF 1 FOOT IS ATTAINED, ONLY HAND OPERATED TAMPING EQUIPMENT MAY BE USED IN THE TRENCH PRISM OVER THE PIPE.
- CONCRETE STRUCTURE CONNECTIONS FOR HDPE PIPE WILL REQUIRE THE USE OF A WATER STOP THAT MEETS THE PHYSICAL PROPERTIES OF ASTM C923. INSTALLATION SHALL BE PER MANUFACTURER'S SPECIFICATIONS.



Westwork ARCHITECTS

PO Box 1802
ALBUQUERQUE, NEW MEXICO 87184-0921
505.884.5252 FAX: 505.884.5255

CONSULTANTS

CIVIL: HIGH MESA CONSULTING GROUP
4010-B MIDWAY PARK BLVD. NE
ALBUQUERQUE, NM 87109
Phone: (505)345-4250 Fax: (505) 345-4254

STRUCTURAL: Chavez-Grieco Consulting Engineers, Inc.
4700 Lincoln Road NE, Suite 102
Albuquerque, NM 87109
D: 505-344-4080
C: 505-259-7486

MECHANICAL/PLUMBING/ELECTRICAL:
T & D Services
6001 Indian School Rd. NE
Albuquerque, NM 87110 - 4183
(505) 314-7508 Direct
(505) 314-7500 Office
(505) 314-7501 FAX

AZTEC SPECIAL EDUCATION FACILITY

Albuquerque Public Schools
2611 Eubank Blvd. Albuquerque, New Mexico 87112

ADDENDUM COMPILATION SET

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PROJECT NO: 2014.037.1

CAD DWG FILE:

DRAWN BY: J.Y.R./S.C.C.

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SHEET TITLE

GRADING AND DRAINAGE SECTIONS AND DETAILS

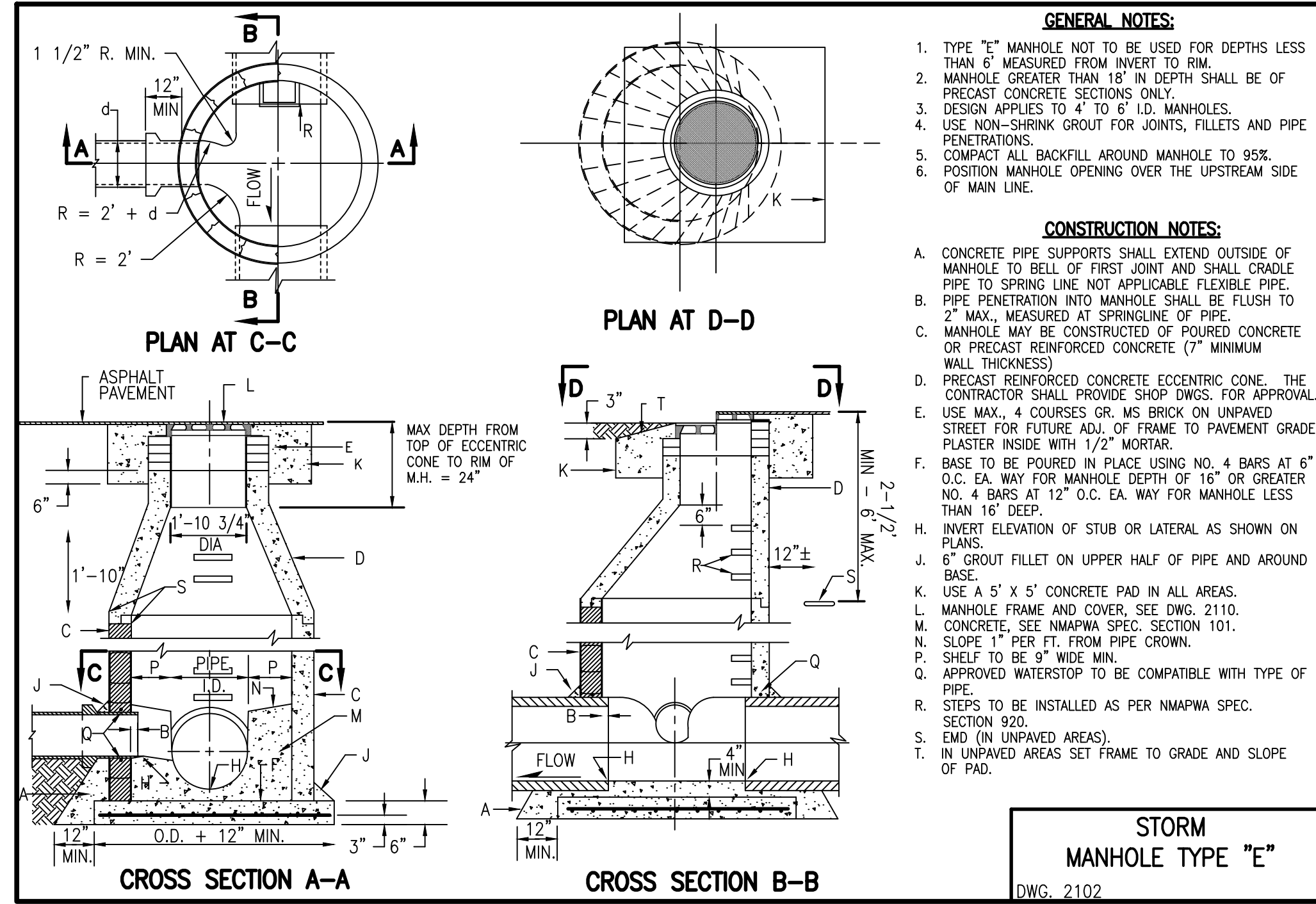
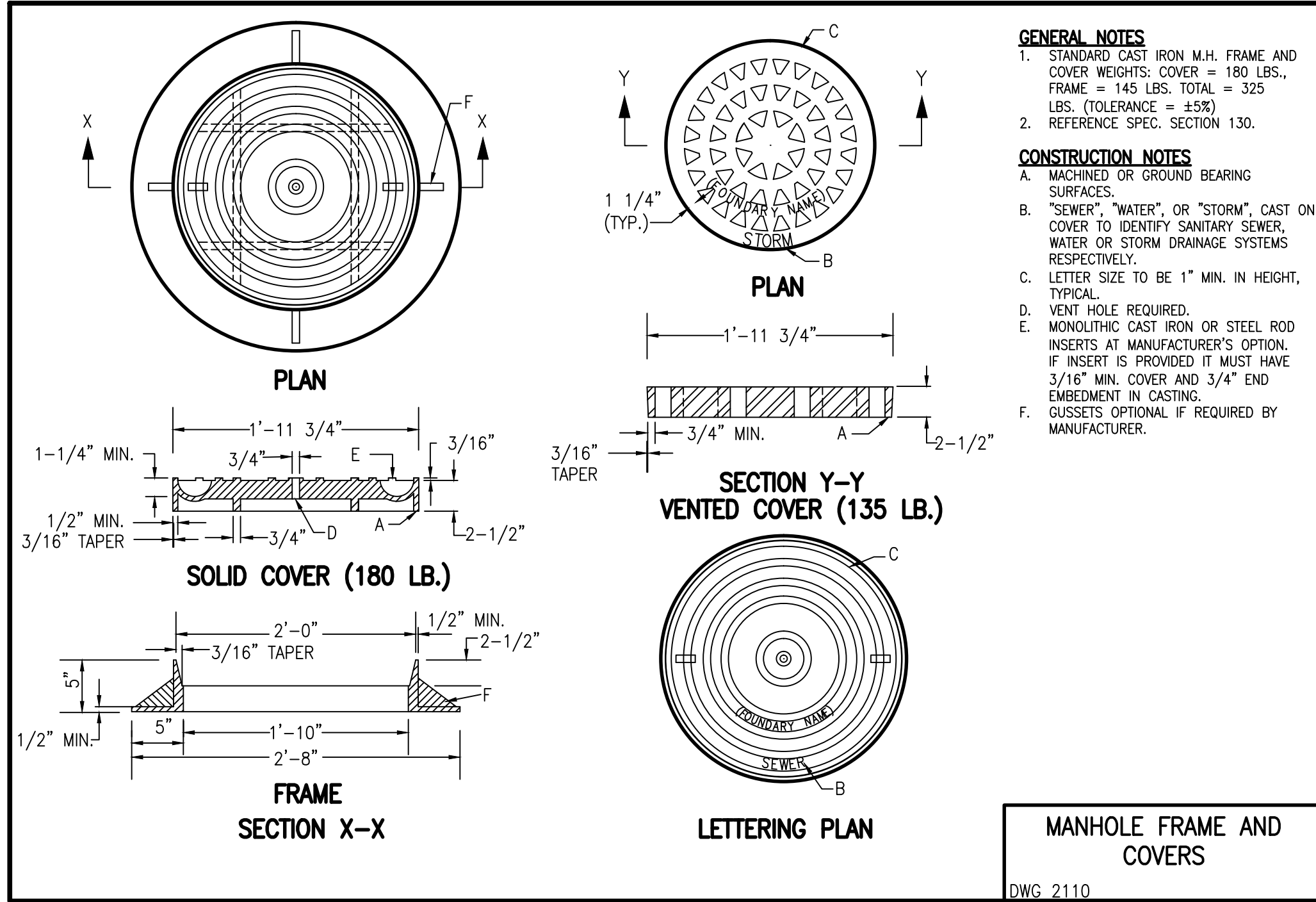
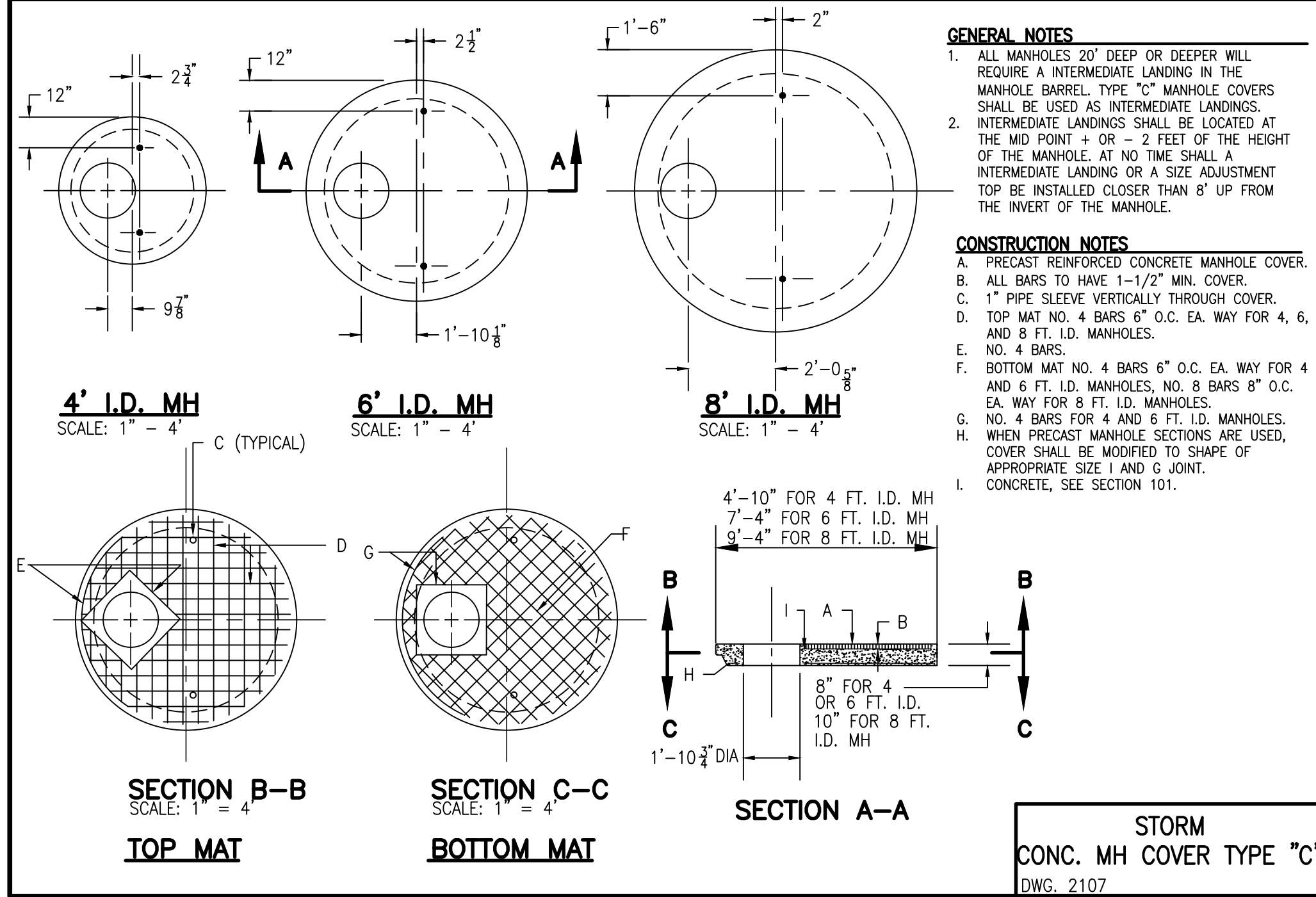
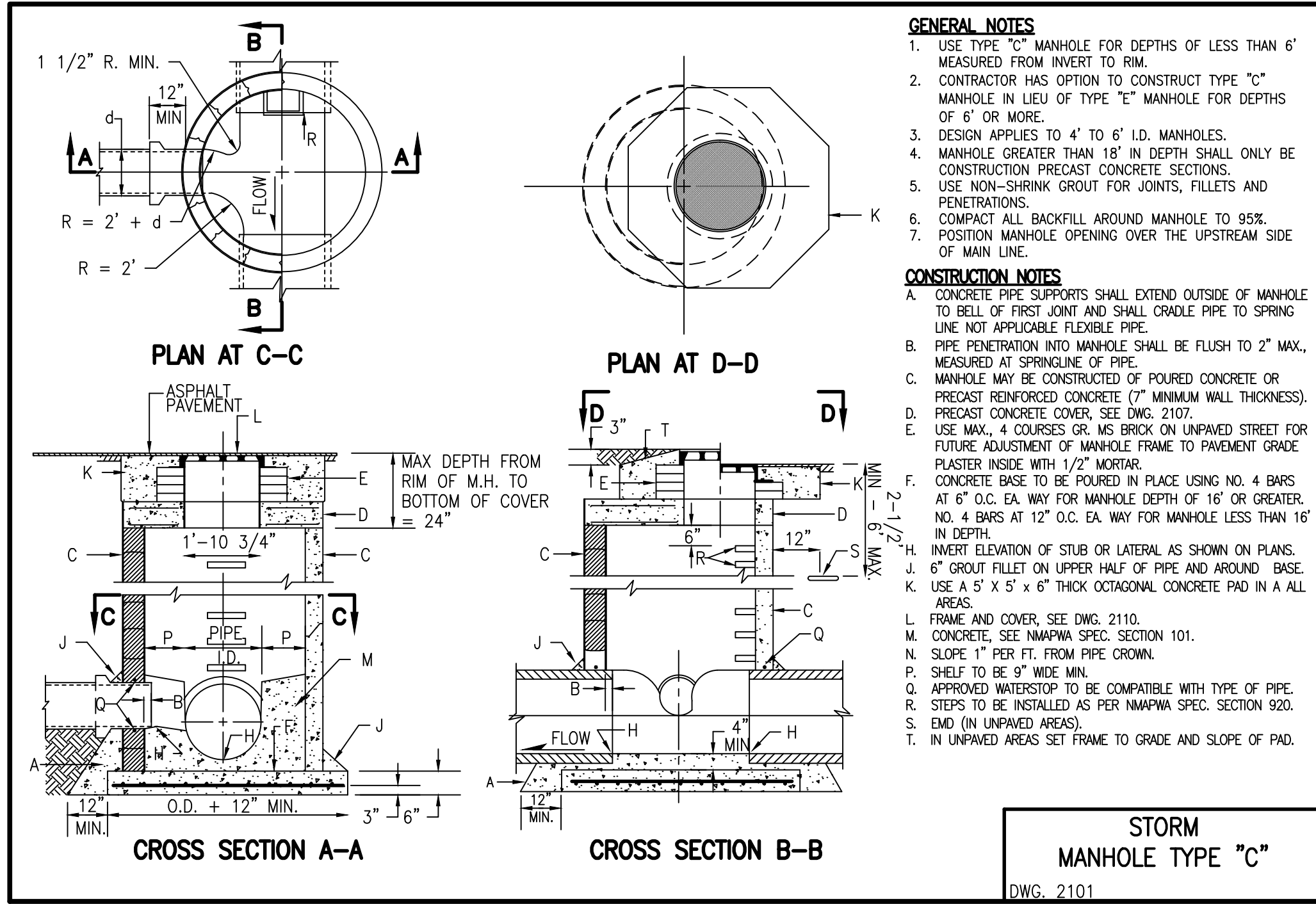
CG-501



HIGH MESA Consulting Group

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PHONE: 505.345.4250 FAX: 505.345.4254
www.highmesacg.com

2014.037.1



Westwork ARCHITECTS

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ALBUQUERQUE, NEW MEXICO 87114-0921
505.884.5252 FAX: 505.884.5255

CONSULTANTS

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Phone: (505)345-4250 Fax: (505) 345-4254
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AZTEC SPECIAL EDUCATION FACILITY

Albuquerque Public Schools
2611 Eubank Blvd. Albuquerque, New Mexico 87112

ADDENDUM COMPILATION SET

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09	08/03/15	ADDENDUM V

PROJECT NO: 2014.037.1
CAD DWG FILE:
DRAWN BY: J.Y.R./S.C.C.
CHK'D BY: G.M.
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GRADING AND DRAINAGE SECTIONS AND DETAILS

CG-502

HIGH MESA Consulting Group
6010-B MIDWAY PARK BLVD. NE
ALBUQUERQUE, NEW MEXICO 87109
PHONE: 505.345.4250 FAX: 505.345.4254
www.highmesacg.com
07/31/2015

Worksheet

Worksheet for Grate Inlet In Sag

INLET D

Project Description	
Worksheet	Single Grate
Type	Grate Inlet In Sag
Solve For	Spread

Input Data	
Discharge	12.20 cfs
Gutter Width	2.08 ft
Gutter Cross Slope	0.020000 ft/ft
Road Cross Slope	0.020000 ft/ft
Grate Width	2.08 ft
Grate Length	10.00 ft
Local Depression	0.0 in
Local Depression \	0.00 ft
Grate Type	3 mm (P-1-7/8")
Clogging	50.0 %

Results	
Spread	24.20 ft
Depth	0.48 ft
Gutter Depression	0.0 in
Total Depression	0.0 in
Open Grate Area	9.4 ft²
Active Grate Weir Length	12.08 ft

Worksheet
Worksheet for Grate Inlet In Sag

INLET C

Project Description	
Worksheet	Grate Inlet
Type	Grate Inlet In Sag
Solve For	Spread

Input Data	
Discharge	5.20 cfs
Gutter Width	2.08 ft
Gutter Cross Slope	0.020000 ft/ft
Road Cross Slope	0.020000 ft/ft
Grate Width	2.08 ft
Grate Length	6.67 ft
Local Depression	0.0 in
Local Depression \	0.00 ft
Grate Type	3 mm (P-1-7/8")
Clogging	50.0 %

Results	
Spread	16.99 ft
Depth	0.34 ft
Gutter Depression	0.0 in
Total Depression	0.0 in
Open Grate Area	6.2 ft²
Active Grate Weir Length	8.75 ft

Worksheet
Worksheet for Grate Inlet In Sag

INLET A

Project Description	
Worksheet	Grate Inlet
Type	Grate Inlet In Sag
Solve For	Spread

Input Data	
Discharge	5.00 cfs
Gutter Width	2.08 ft
Gutter Cross Slope	0.020000 ft/ft
Road Cross Slope	0.020000 ft/ft
Grate Width	2.08 ft
Grate Length	6.67 ft
Local Depression	0.0 in
Local Depression \	0.00 ft
Grate Type	3 mm (P-1-7/8")
Clogging	50.0 %

Results	
Spread	16.55 ft
Depth	0.33 ft
Gutter Depression	0.0 in
Total Depression	0.0 in
Open Grate Area	6.2 ft²
Active Grate Weir Length	8.75 ft



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: _____ Building Permit #: _____ City Drainage #: _____

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

Legal Description: _____

City Address: _____

Engineering Firm: _____ Contact: _____

Address: _____

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

Owner: _____ Contact: _____

Address: _____

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

Architect: _____ Contact: _____

Address: _____

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

Surveyor: _____ Contact: _____

Address: _____

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

Contractor: _____ Contact: _____

Address: _____

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

TYPE OF SUBMITTAL:

- _____ DRAINAGE REPORT (DMP)
- _____ DRAINAGE PLAN 1st SUBMITTAL
- _____ DRAINAGE PLAN RESUBMITTAL
- _____ CONCEPTUAL G & D PLAN
- _____ GRADING PLAN
- _____ EROSION & SEDIMENT CONTROL PLAN (ESC)
- _____ ENGINEER'S CERT (HYDROLOGY)
- _____ CLOMR/LOMR
- _____ TRAFFIC CIRCULATION LAYOUT (TCL)
- _____ ENGINEER'S CERT (TCL)
- _____ ENGINEER'S CERT (DRB SITE PLAN)
- _____ ENGINEER'S CERT (ESC)
- _____ SO-19
- _____ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- _____ SIA/FINANCIAL GUARANTEE RELEASE
- _____ PRELIMINARY PLAT APPROVAL
- _____ S. DEV. PLAN FOR SUB'D APPROVAL
- _____ S. DEV. FOR BLDG. PERMIT APPROVAL
- _____ SECTOR PLAN APPROVAL
- _____ FINAL PLAT APPROVAL
- _____ CERTIFICATE OF OCCUPANCY (PERM)
- _____ CERTIFICATE OF OCCUPANCY (TCL TEMP)
- _____ FOUNDATION PERMIT APPROVAL
- _____ BUILDING PERMIT APPROVAL
- _____ GRADING PERMIT APPROVAL
- _____ PAVING PERMIT APPROVAL
- _____ WORK ORDER APPROVAL
- _____ GRADING CERTIFICATION
- _____ SO-19 APPROVAL
- _____ ESC PERMIT APPROVAL
- _____ ESC CERT. ACCEPTANCE
- _____ OTHER (DMP)

WAS A PRE-DESIGN CONFERENCE ATTENDED: _____ Yes _____ No _____ Copy Provided

DATE SUBMITTED: _____ By: _____

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report:** Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

HIGH MESA Consulting Group

2014.037.1

August 31, 2015

Jeanne Wolfenbarger, P.E.
Senior Engineer
Development & Building Services Division
City of Albuquerque Planning Department
600 Second Street NW
Albuquerque, NM 87102

Re: Aztec Special Education Complex, 2611 Eubank NE (H20-D033)

Dear Jeanne:

Transmitted herewith is our resubmittal of the subject project. Please note that the engineer's stamp date on the cover changed to 07/31/2015 on the cover and detail sheets with a revision date of 8/31/2015 on the two grading plan sheets. The 7/31 date was required because the package was re-issued for bidding, and the most recent 8/31 date on the two grading plan sheets revised the inlet sizing. Sorry for any confusion. The re-issued set changed the base bid to be the east building, as opposed to the larger building that was the base bid in our original submittal.


This resubmittal addresses your comments dated 6/2/2015 as follows:

- AHYMO input and output files are provided
- Roof drain locations are shown on the grading plans
- Inlet capacity calculations are provided (printouts referenced to the attached plan excerpt)

If you should have any questions or comments concerning this resubmittal, or if you should need any additional information, please do not hesitate to call.

Sincerely,

HIGH MESA CONSULTING GROUP


J. Graeme Means, P.E.
Principal

GM:*

Principals: Jeffrey G. Mortensen, P.E. • Charles G. Cala, Jr., P.S. • Juan M. Cala
Joseph M. Solomon, Jr., P.S. • J. Graeme Means, P.E. • Joseph E. Gonzales

CITY OF ALBUQUERQUE



October 2, 2015

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

**RE: Aztec Special Education Facility
2611 Eubank NE
Grading and Drainage Plan
Engineer's Stamp Date 7-31-2015 (H20D033)**

Dear Mr. Means,

Based upon the information provided in your submittal received 9/1/15, this plan dated 7/31/15 is acceptable for Paving Permit and Building Permit. Before building permit approval, an Erosion and Sediment Control Plan (ESC) must be submitted and accepted.

PO Box 1293

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

Albuquerque

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

New Mexico 87103

If you have any questions, please contact me at 924-3999 or Rudy Rael at 924-3977.

www.cabq.gov

Sincerely,

Shahab Biazar, P.E.
City Engineer, Planning Dept.
Development Review Services

C: e-mail

RR/SB
C: File