CITY OF ALBUQUERQUE



August 11, 2017

David Soule, PE Rio Grande Engineering 1606 Central SE Suite 201 Albuquerque, NM 87106

Re: Del Norte Baptist Church 5800 Montgomery Blvd. NE Grading & Drainage Plan Engineer's Stamp Dated 8/1/17 (G18D010)

Dear Mr. Soule,

Based upon the information provided in the submittal received on 8/2/17 the abovereferenced plan cannot be approved for Grading, SO-19, and Paving Permits.

- Correct the Legal description "Lots B, C, and C2B"
- Add the SO-19 notes so that this plan can be used to obtain an SO-19 Permit for the sidewalk culverts, driveways in the public right of ways.
- Clearly indicate limits of removal and disposal on separate sheet.
- Clearly indicate new paving and sidewalks with hatch patterns and curb and gutter types to be constructed this project. Resolve discrepancy between legend and plan view.
- Topo survey needs work. Show existing drive pads, retaining walls, and slope paving more clearly on grading plan.
- Show existing elevation of adjacent properties at least 10' beyond the limits of this site, both contours and elevations.
- Add existing spot elevations all around perimeter next to each proposed elevations. Spots should be spaced about every 50'.
- Add Driveway and HC ramp detail per City Standard Specifications. Provide 0.87' water block height along Montgomery Blvd.
- Sidewalk Easement may be necessary if sidewalk jogs into private property at driveway locations.
- Proposed driveways need to be shown in greater detail with ramps, and construction notes.
- Add more typical sections around perimeter of site. More retaining walls may be needed particularly along the west side of lots C and B. Show existing walls/slopes in sections.

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

- Typical section DD needs more dimensions, show footer, existing ground distance to property line, and max height of retaining. Offset the wall far enough from property line so that the neighbor's property will not be disturbed during construction.
- Add existing ground and dimensions to Section BB
- Provide more sections and details for grading in landscape areas northeast of the building.
- Provide HGL calculations for onsite storm drain and add profile of pipe to the plans showing HGL and label HGL elevations, Q, and V.
- Provide actual flow depth & elevation at inlets. Add emergency overflow depth & elevation calculations for sump inlets and verify freeboard to building floor elevations.
- Provide section, profile, and details of ponds F and G. Make sure they do not drain into the private property west of this site. Provide outfall details.

If you have any questions, you can contact me at 924-3986.

Sincerely,

Jamp D. Healla

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

DH

C: email

Serna, Yvette; Fox, Debi; Tena, Victoria; Sandoval, Darlene M.



City of Albuquerque

Planning Department Development & Building Services Division DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

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:					
Other Contact:		Contact:					
Address:							
Phone#: Fax#:		E-mail:					
TRAFFIC/ TRANSPORTATION MS4/ EROSION & SEDIMENT CONTROL		BUILDING PERMIT APPROVAL CERTIFICATE OF OCCUPANCY					
TYPE OF SUBMITTAL:							
ENGINEER/ ARCHITECT CERTIFICATION		RY PLAT APPROVAL					
		SITE PLAN FOR SUB'D APPROVAL SITE PLAN FOR BLDG. PERMIT APPROVAL					
CONCEPTUAL G & D PLAN	FINAL PLAT						
GRADING PLAN							
DRAINAGE MASTER PLAN	FOUNDATIO	ON PERMIT APPROVAL					
DRAINAGE REPORT	GRADING P	ERMIT APPROVAL					
CLOMR/LOMR	SO-19 APPR	OVAL					
TRAFFIC CIRCUITATION LAVOUT (TOL)		RMIT APPROVAL					
TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC IMPACT STUDY (TIS)		PAD CERTIFICATION					
EROSION & SEDIMENT CONTROL PLAN (ESC)		WORK ORDER APPROVAL					
	CLOMR/LON	/IK					
OTHER (SPECIFY)	PRE-DESIGN	MEETING					
	OTHER (SPE	ECIFY)					
IS THIS A RESUBMITTAL?: Yes No							
DATE SUBMITTED:By: _							

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ____

DRAINAGE REPORT

For

DEL NORTE BAPTIST CHURCH 5800 MONTGOMERY BLVD NE

Albuquerque, New Mexico

Prepared by

Rio Grande Engineering PO Box 93924 Albuquerque, New Mexico 87199

SEPTEMBER 2016



David Soule P.E. No. 14522

1

TABLE OF CONTENTS

Purpose	3
Introduction	
Existing Conditions	
Exhibit A-Vicinity Map	
Proposed Conditions	
Summary	
Outfindary	

<u>Appendix</u>

Site Hydrology	
lydraulic calculationsB	

Map Site Grading and Drainage Plan



PURPOSE

The purpose of this report is to provide the Drainage Management Plan for the Repavement and pedestrian improvement of a 3.4 acre Church located at 5800 Montgomery NE. This plan was prepared in accordance with the City of Albuquerque design regulations, utilizing the City of Albuquerque's Development Process Manual drainage guidelines. This report will demonstrate that the grading does not adversely affect the surrounding properties, nor the upstream or downstream facilities.

INTRODUCTION

The subject of this report, as shown on the Exhibit A, is a 3.4 acre parcel of land located on the south side of Montgomery between San Pedro Boulevard and Madeira Drive. The legal description of this site is tract B and lot C2B Unit 6 Altamont Addition. The scope of the project also includes repaving the parking lot at 6100 Montgomery. As shown on FIRM map35013C0139G, the entire site is located within Flood Zone X. The site is a completely developed lot with large parking fields. The site is not impacted by upland flows due to curbs and walls upstream. The site is surrounded by fully developed sites on all sides. The site currently free discharges as sheet flow to Hendrix and Montgomery. The repaving and pedestrian improvements will correct some adverse drainage affecting the building while maintaining existing drainage patterns and incorporating the first flush ordinance requirements. The plan shows the grades for the tract at 6100 Montgomery, but no changes to the drainage are proposed, therefore no analysis of this parcel is proposed.

EXISTING CONDITIONS

The site is currently fully developed and is not impacted by upland flows. The site is located in flood zone x. The site currently discharged flow from east to west. The flow splits around the existing building. The site discharges 5.37 cfs to Montano and 10.30 cfs to Hendrix.

3

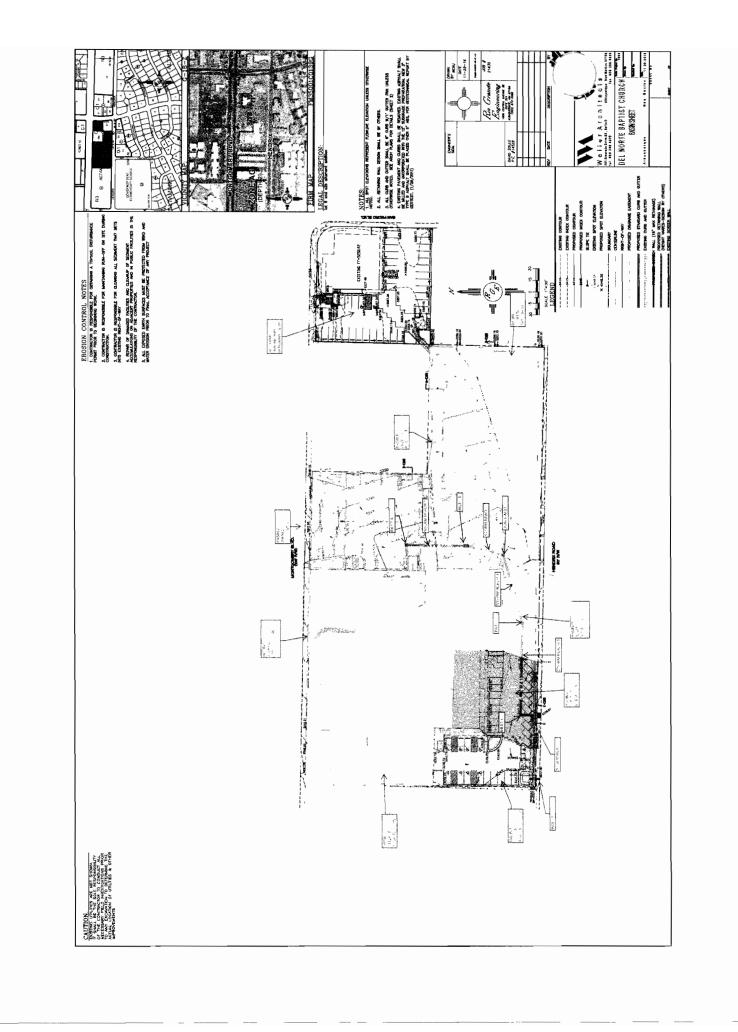
PROPOSED CONDITIONS

The proposed improvements consist of pulverizing the existing asphalt, correcting a poorly draining area on the east entrance to the Church, and adding pedestrian features. In addition to the main building an adjacent conference hall is being milled and overlaid with deteriorated flatwork replaced. The conference center drainage will not change so no analysis is being done and existing conditions will remain. A drainage sub-basin map and hydraulic spread sheet is included in Appendix A. The proposed development will continue to drain from east to west with the same sub basins as existing. An underground drainage system is proposed to correct the drainage issues at the east entrance to the church. The flow from each sub basin A-F are captured by inlets and conveyed to a discharge point at Hendrix. The flow will pass thru sidewalk culverts at the historical locations. Basins G-H will exit to Montgomery via the existing driveway. As shown in Appendix B, the inlets have capacity to capture the peak flow. The storm drain pipe capacity has been shown to covey the entire flow, without flowing under pressure. The outfalls will be constructed utilizing the SO-19 process. The first flush requirement for this site is 3224 cubic feet. The site design provides for 3446 cubic feet. As shown the total discharge to Hendrix is 10.35 which is a .05 cfs increase while the discharge to Montgomery is 5.11 cfs which is a 0.26 cfs reduction. In function, the peak flows will be less due to the harvest ponds and the routing through inlets and pipes, so the .05 cfs increase will be negligible.

SUMMARY AND RECOMMENDATIONS

This project is a redevelopment of an existing fully developed lot within fully developed water shed. This site currently has free discharge to both Montgomery and Hendrix. The historical drainage patterns remain, a storm drain has been added to correct a problematic drainage area that affects the existing building. The improvements incorporate water quality ponds to comply with the first flush ordinance. The discharge points will be constructed such that the sidewalk culverts will pass the flow. The development of this site will not negatively impact the upstream

5



Weighted E Method

											100-Year, 6-h	nr.	
Basin	Area	Area	Treatment	A	Treatm	ent B	Treatm	nent C	Treatme	nt D	Weighted E	Volume	Flow
	_(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs
EXISTING	147174.00	3.379	0%	0	10%	0.338	9%	0.30408	81%	2.737	2.120	0.597	15.67
EXISTING TO MONT	50412.00	1.157	0%	0	10%	0.116	9%	0.10416	81%	0.937	2.120	0.204	5.37
EXISTING TO HENDRIX	96762.00	2.221	0%	0	10%	0.222	9%	0.19992	81%	1.799	2.120	0.392	10.30
PROPOSED A	20604.00	0.473	0%	0	0%	0.000	18%	0.08514	82%	0.388	2.167	0.085	2.24
PROPOSED B	26295.00	0.604	0%	0	0%	0.000	9%	0.05433	91%	0.549	2.264	0,114	2.95
PROPOSED C	15301.00	0.351	0%	0	0%	0.000	17%	0.05971	83%	0.292	2.178	0.064	1.67
PROPOSED D	12377.00	0.284	0%	0	38%	0.108	10%	0.02841	52%	0.148	1.706	0.040	1.12
PROPOSED E	12015.00	0.276	0%	0	6%	0.017	8%	0.02207	86%	0.237	2.188	0.050	1.31
PROPOSED F	10170.00	0.233	0%	0	8%	0.019	13%	0.03035	79%	0.184	2.106	0.041	1.08
PROPOSED G	21128.00	0.485	0%	0	16%	0.078	7%	0.03395	77%	0.373	2.055	0.083	2.19
PROPOSED H	29284.00	0.672	0%	0	21%	0.141	11%	0.07395	68%	0.457	1.940	0.109	2.92
TOTAL PROPOSED	147174.00	3.379	0%	0	11%	0.362	11%	0.388	78%	2.629			15.48
		the second land, the she will	- No. of an and star stress to be start										
change		0.000	WANT TO MARKED AND ADDRESS AND	0.000	v v . Parishante	0.024		0.084		-0.108	ner or an	in gyr fe'r anneddau ywyddiodau gyn a'r anglyngyddiod yn dau gyn	-0.19

Equations:

i

1

i.

1

Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)

Volume = Weighted D * Total Area

Flow = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad

Where for 100-year, 6-hour storm

where for Too-year, o-nour sto	110			
	Ea= 0.66 Eb= 0.92 Ec= 1.29 Ed= 2.36		Qa= 1.87 Qb= 2.6 Qc= 3.45 Qd= 5.02	
FLOW RATE LEAVING SITE HENDRIX MONTGOMERY	PROPOSED 10.37 CFS 5.11 CFS	EXISTING 10.30 5.37		WATE
INLET A REACH 1 INLET B REACH 2 REACH 3 INLET D REACH 4 INLET E REACH 5 INLET F	FLOW 2.24 CFS 2.24 CFS 2.95 CFS 5.19 CFS 5.19 CFS 1.12 CFS 6.31 CFS 1.31 CFS 7.62 CFS 1.08 CFS	CAPACITY 11.20 3.55 32.04 5.77 5.77 2.39 8.70 2.22 8.70 2.23		

œ

REQUIRED TER HARVEST 3244 CF PROVIDED 3446 CF

DROP INLET CALCULATIONS

INLET	ET TYPE OF A		Q	H	H ALLOW			
	INLET	(SF)	(CFS)	(FT)	(FT)			
INLET A	SINGLE	3.84	4.48	0.0587	0.37			
INLET B	DOUBLE	7.68	5.9	0.0255	0.75			
ORIFICE EQUATION								

Q = CA sqrt(2gH)

C =	•	`	Ŭ	,	0.6
g =					32.2

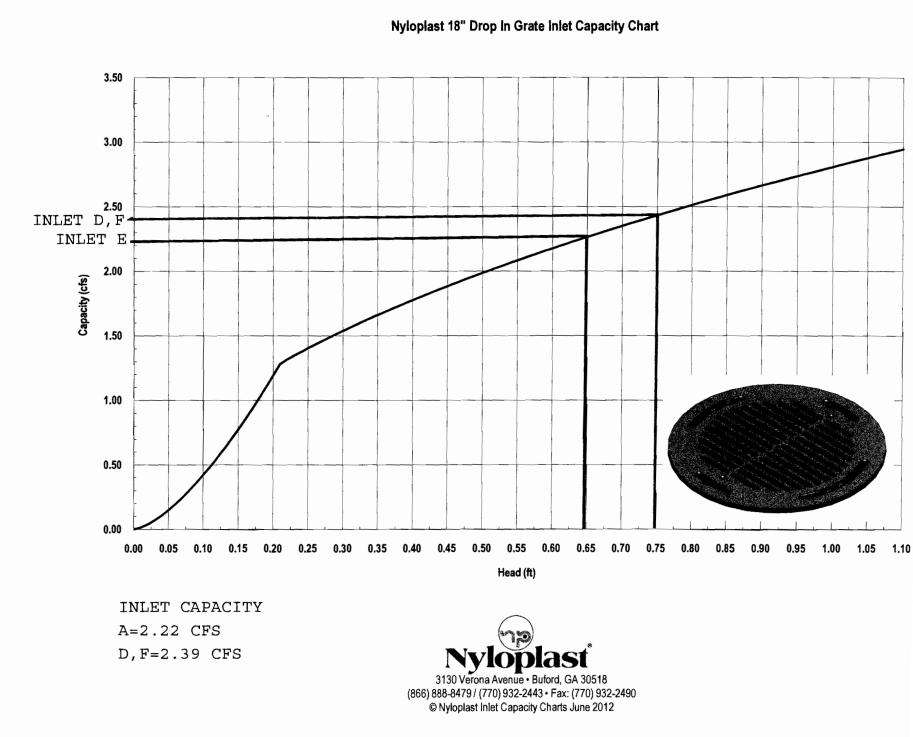
FLOW RATES ARE DOUBLED

CHANNEL CAPACITY

	Top Width	Bottom Width	Depth	Area	WP	R	Slope	Q Provided	Q Required	Velocity
	(ft)	(ft)	(ft)	(ft^2)	(ft)		_(%)	(cfs)	(cfs)*	(ft/s)
east culvert	2	2	0.67	1.34	3.34	0.4011976	2	4.39	2.90	2.16
west culdrt	2	2	0.67	1.34	3.34	0.4011976	2	4.39	2.39	1.78

<u>Manning's Equation:</u> Q = 1.49/n * A * R^(2/3) * S^(1/2) A = Area R = D/4 S = Slope n = 0.035

* flow divided equally into each culvert



CAUTION: EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR

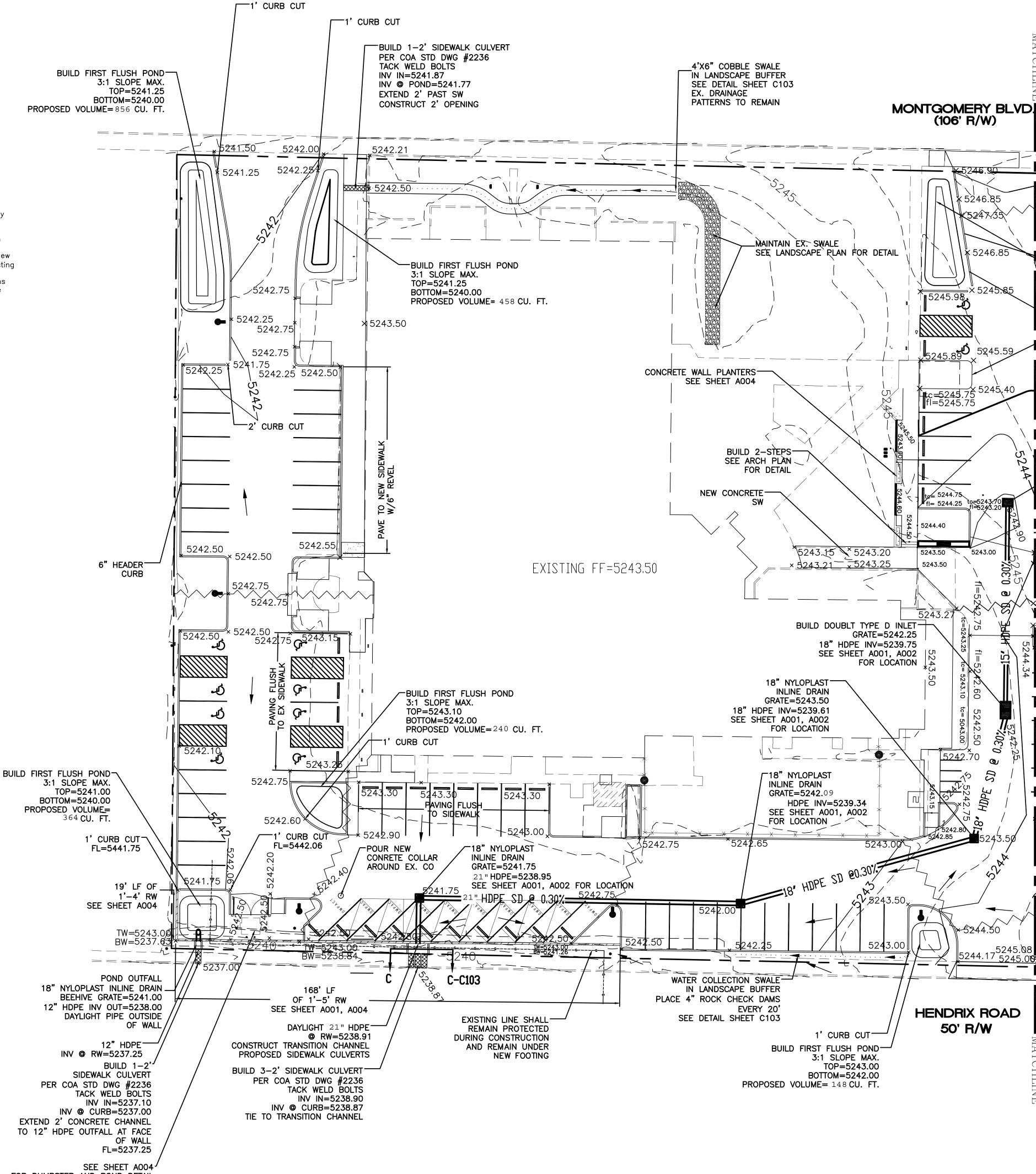
TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

PRIVATE DRAINAGE IMPROVEMNET IN PUBLIC ROW NOTICE TO CONTRACTORS

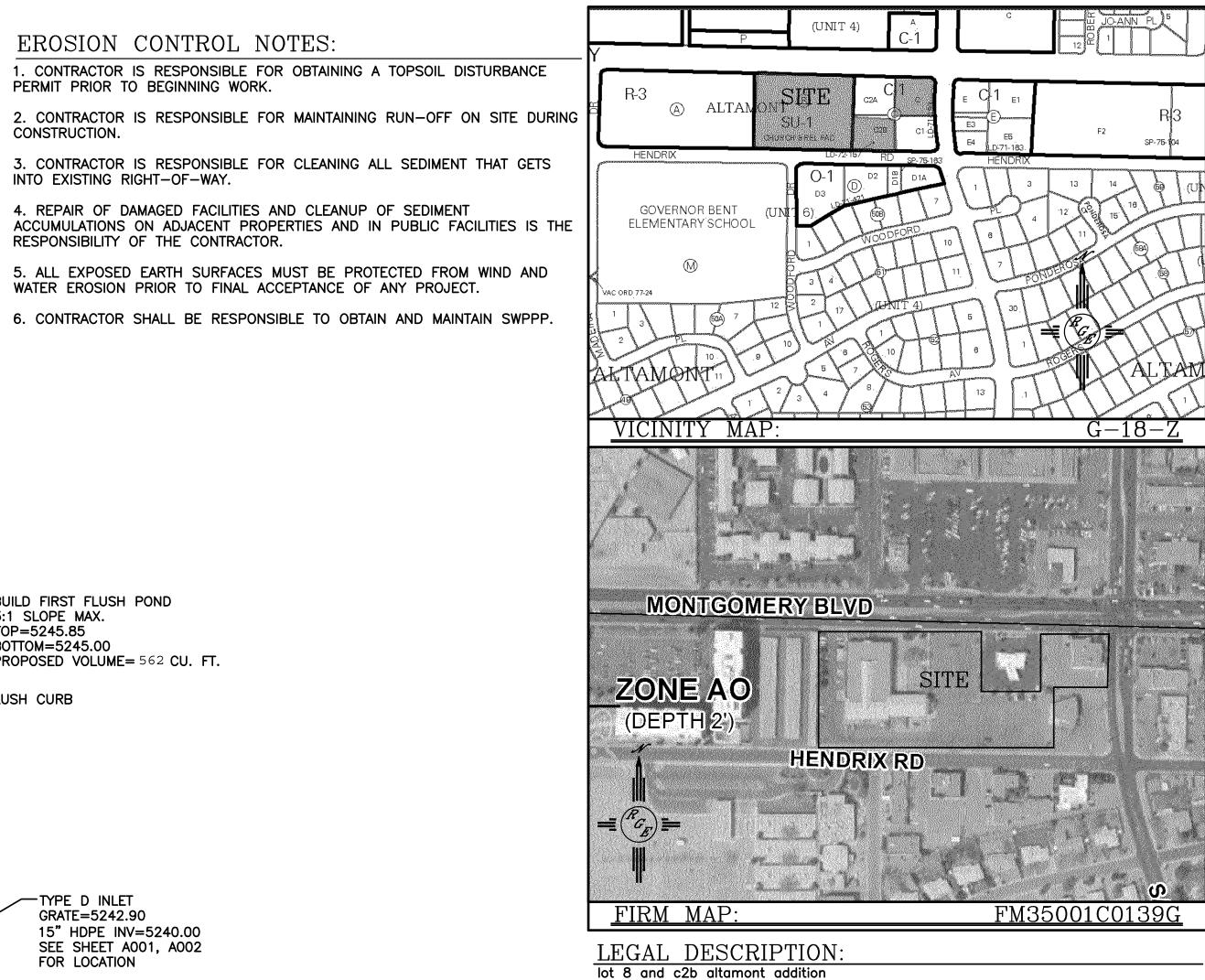
Notice to Contractor (Special Order 19 ~ "SO-19")

- 1. An excavation permit will be required before beginning any work within City Right-Of-Way.
- 2. 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. 3. Two working days prior to any excavation, the contractor must contact New Mexico One Call, dial "811" [or (505) 260-1990] for the location of existing
- utilities. 4. Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of
- 5. Backfill compaction shall be according to traffic/street use. 6. Maintenance of the facility shall be the responsibility of the owner of the
- property being served. Work on arterial streets shall be performed on a 24-hour basis.
- 8. Prior to pouring concrete, contractor shall notify the storm drain inspector, 857-8074, to inspect reinforcement.

APPROVAL	NAME	DATE
INSPECTOR		



FOR DUMPSTER AND POND DETAIL



NOTES:

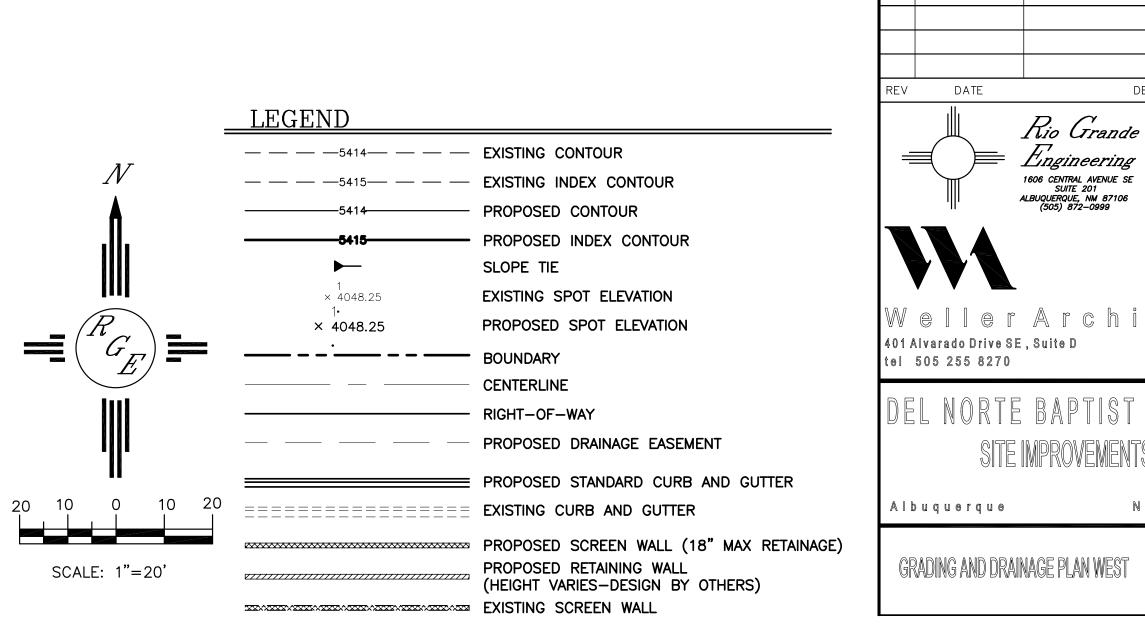
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.

2. ALL RETAINING WALL DESIGN SHALL BE BY ARCHITECT.

3. ALL CURB AND GUTTER SHALL BE 6" CURB, UNLESS OTHERWISE NOTED. SEE SHEET C103 FOR DETAIL. 4. EXISTING PAVMENTS AND CURBS SHALL BE REMOVED, UNLESS OHTERWISE NOTED

5. SEE ARCHITECTURAL SITE PLAN FOR ALL PLANTER AND PATTERN CONCRETE LOCATIONS AND DETAILS.

6.EXISTING ASPHALT PAVEMENT SHALL BE CRUSHED AND SCREENED FOR USE AS A PART OF THE GRADED MIXTURE FOR BASE COURSE. NEW 4 TO 5 INCH THICKNESS OF COMPACTED BASE COURSE SHALL BE A GRADED MIXTURE OF CRUSHED EXISTING ASPHALT AND EXISTING SUBGRADE SOILS. NEW 3 INCH TYPE B ASPHALT PAVEMENT SHALL BE PLACED OVER THE PREPARED BASE COURSE.



BUILD FIRST FLUSH POND 3:1 SLOPE MAX. TOP=5245.85 BOTTOM=5245.00 PROPOSED VOLUME= 562 CU. FT.

-FLUSH CURB

0

ര്വ

0

Q

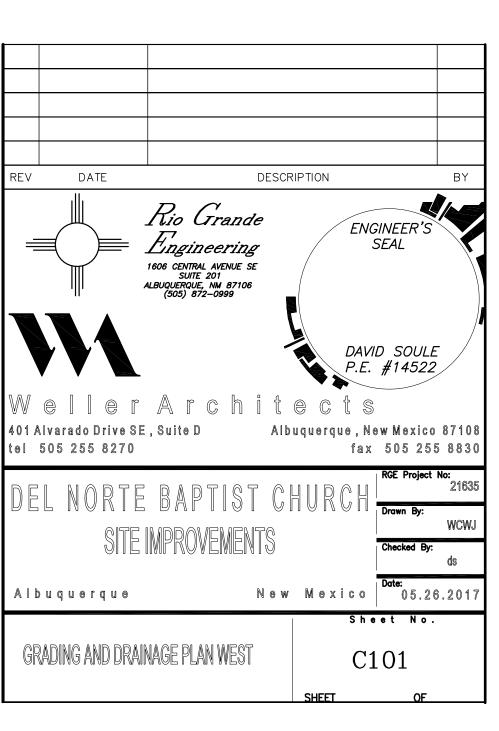
SD

CONSTRUCTION.

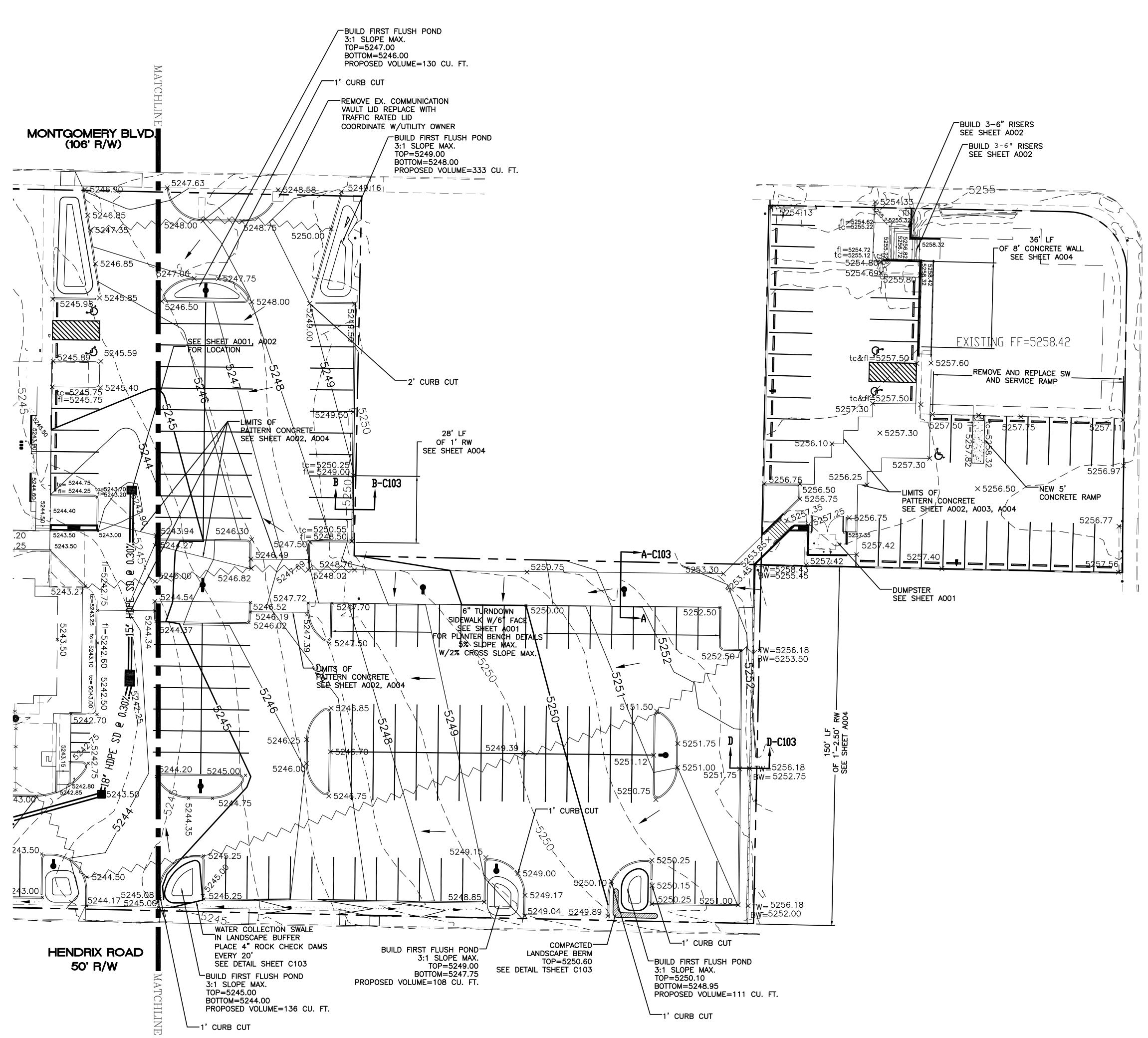
TYPE D INLET GRATE=5242.90 15" HDPE INV=5240.00 SEE SHEET A001, A002 FOR LOCATION

 $R_{G_{E'}}$

SCALE: 1"=20'



CAUTION: EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.



EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.

2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.

3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.

4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.

5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.

6. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND MAINTAIN SWPPP.



LEGAL DESCRIPTION: lot 8 and c2b altamont addition

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.

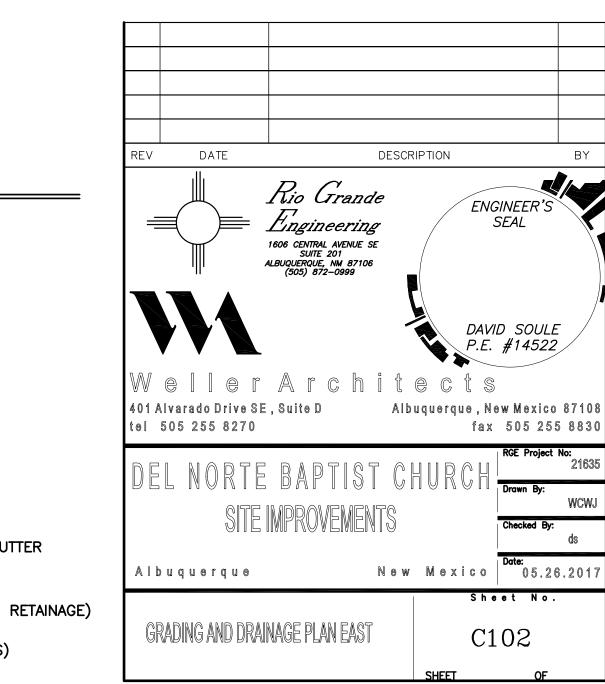
2. ALL RETAINING WALL DESIGN SHALL BE BY ARCHITECT.

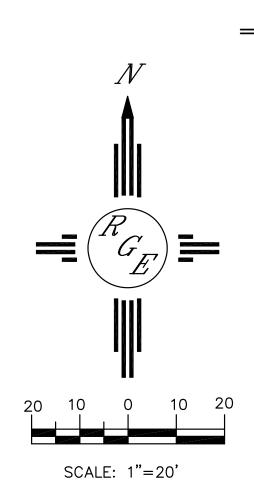
3. ALL CURB AND GUTTER SHALL BE 6" CURB, UNLESS OTHERWISE NOTED. SEE SHEET C103 FOR DETAIL.

4. EXISTING PAVMENTS AND CURBS SHALL BE REMOVED, UNLESS OHTERWISE NOTED

5. SEE ARCHITECTURAL SITE PLAN FOR ALL PLANTER AND PATTERN CONCRETE LOCATIONS AND DETAILS.

6.EXISTING ASPHALT PAVEMENT SHALL BE CRUSHED AND SCREENED FOR USE AS A PART OF THE GRADED MIXTURE FOR BASE COURSE. NEW 4 TO 5 INCH THICKNESS OF COMPACTED BASE COURSE SHALL BE A GRADED MIXTURE OF CRUSHED EXISTING ASPHALT AND EXISTING SUBGRADE SOILS. NEW 3 INCH TYPE B ASPHALT PAVEMENT SHALL BE PLACED OVER THE PREPARED BASE COURSE.

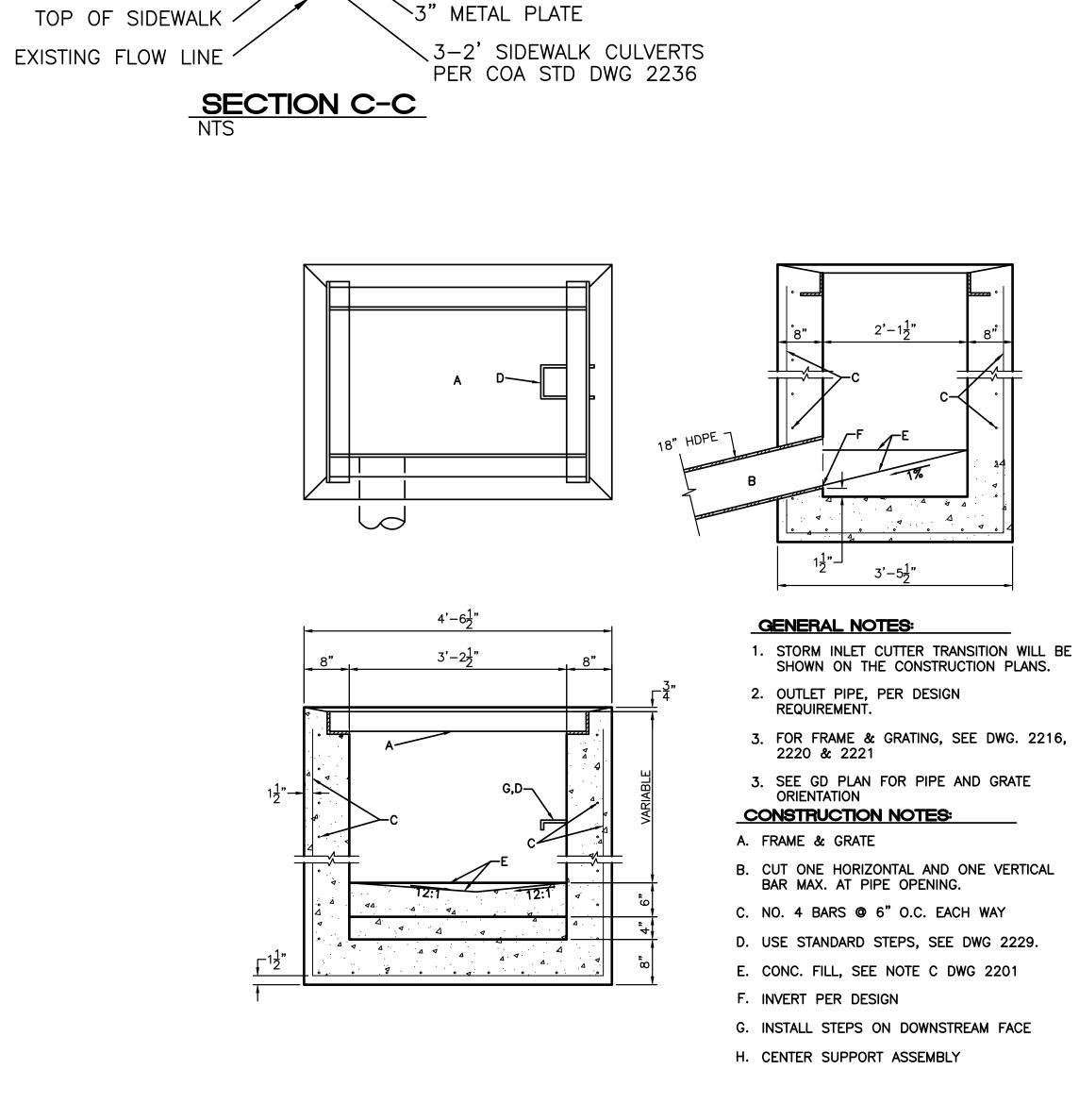




LEGEND — — — — 5414— — — EXISTING CONTOUR ----- EXISTING INDEX CONTOUR —5414— × 4048.25 × 4048.25 BOUNDARY _____ _____

- PROPOSED CONTOUR - PROPOSED INDEX CONTOUR SLOPE TIE EXISTING SPOT ELEVATION PROPOSED SPOT ELEVATION CENTERLINE - RIGHT-OF-WAY PROPOSED DRAINAGE EASEMENT PROPOSED STANDARD CURB AND GUTTER PROPOSED SCREEN WALL (18" MAX RETAINAGE) PROPOSED RETAINING WALL (HEIGHT VARIES-DESIGN BY OTHERS) EXISTING SCREEN WALL





DAYLIGHT 18" HDPE THRU RETAINING WALL

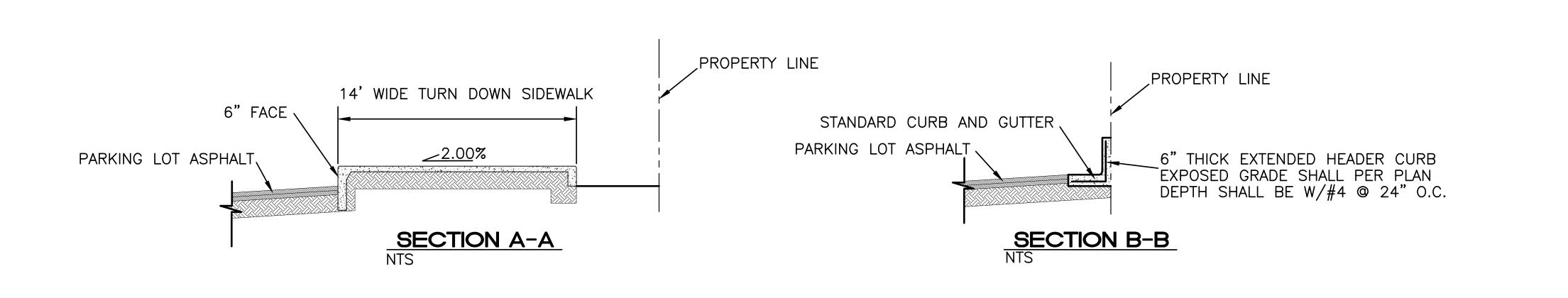
_____ **__**__ **__**__

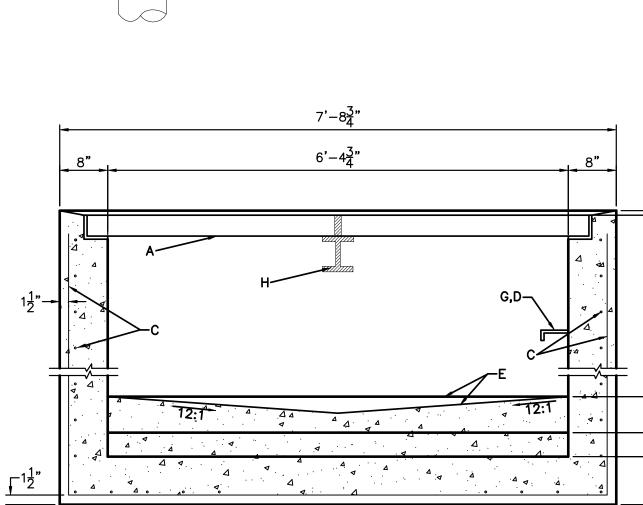
_____∢_____

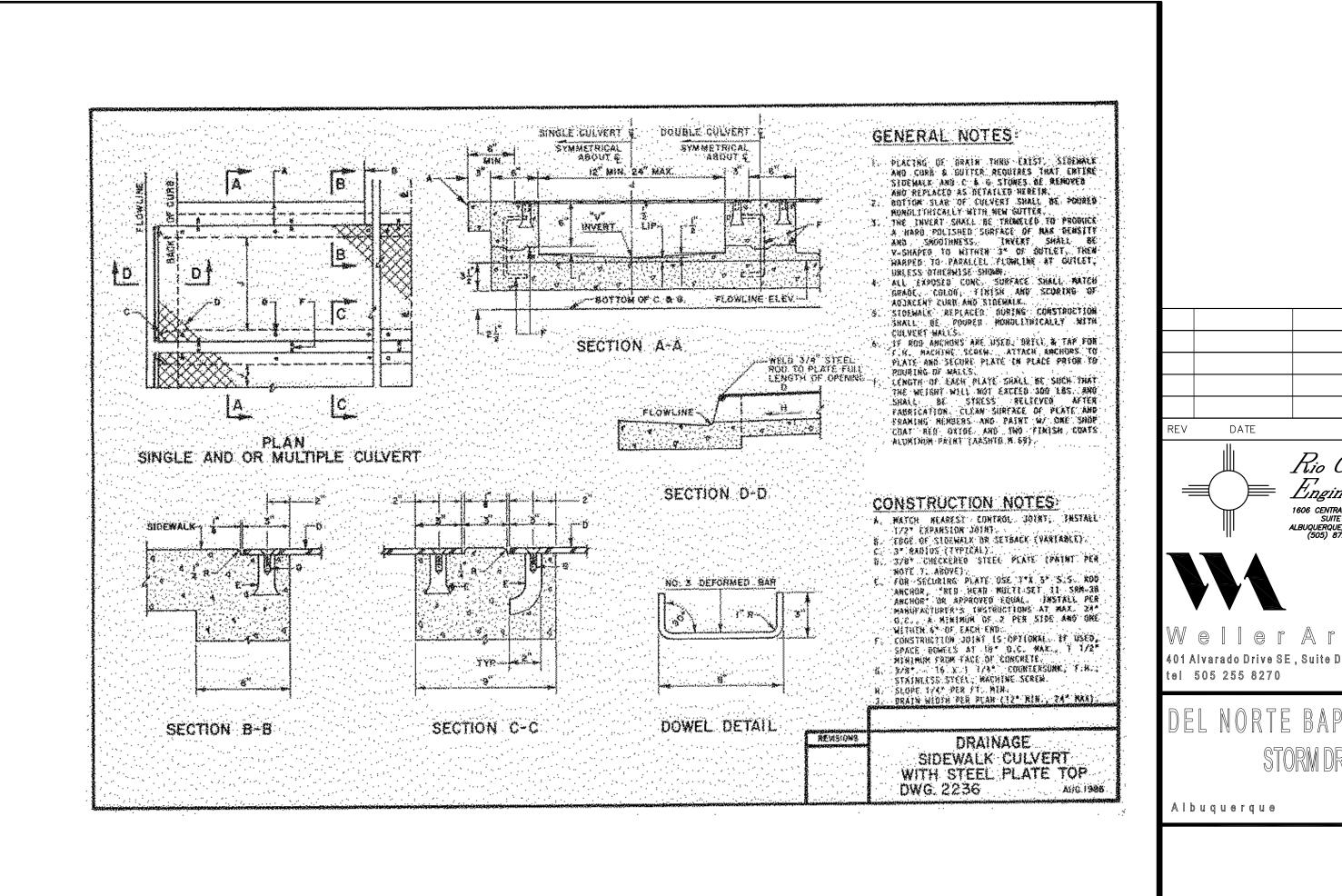
CONSTRUCT TRANSITION CHANNEL

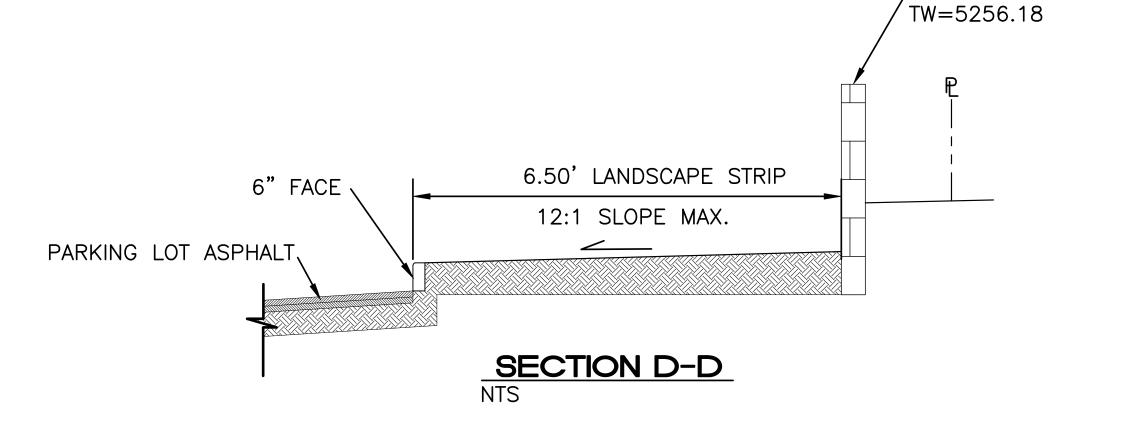
_____ ____ <u>4</u> <u>1</u>4 <u>1</u>

FROM WALL FACE TO SIDEWALK CULVERT

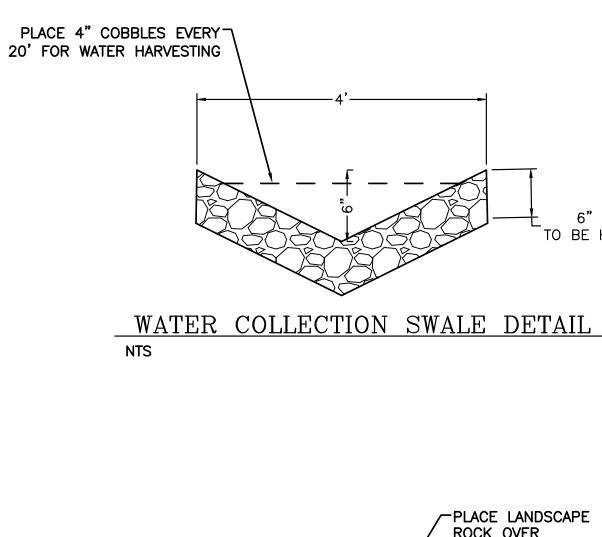


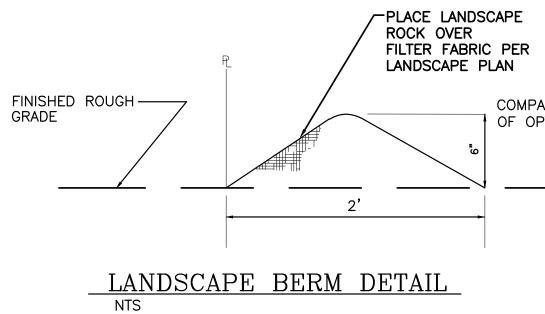


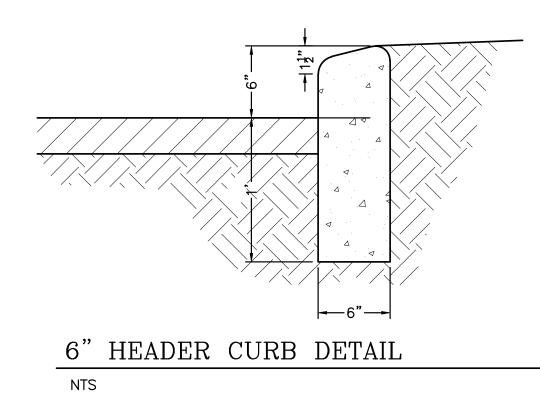




,CONCRETE WALL



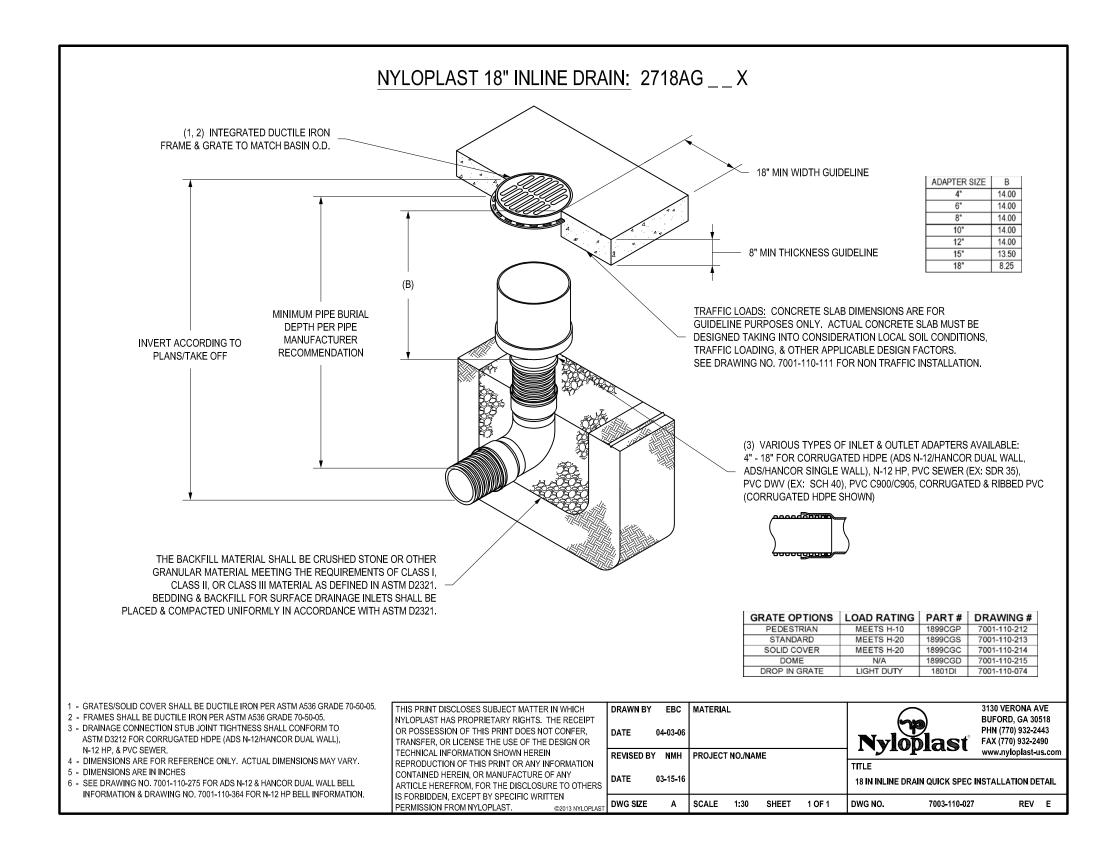


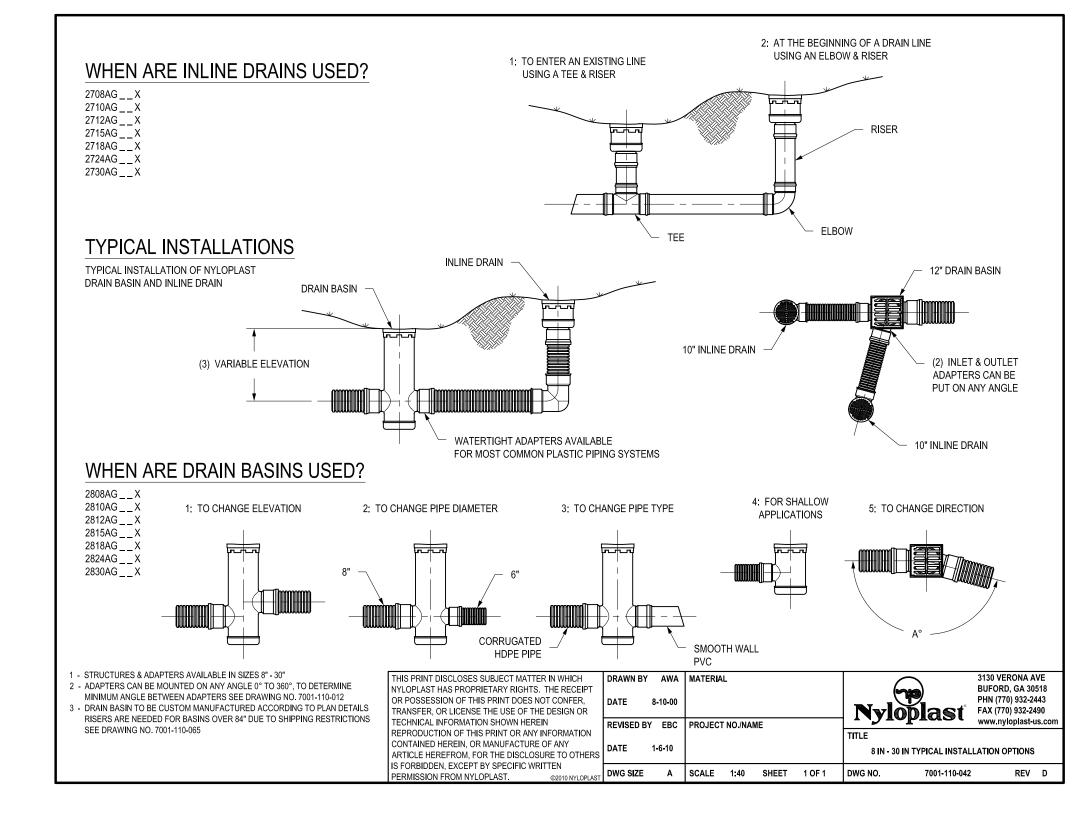


DESCRIPTION	ΒY
Grande ENGINEER'S	
ineering SEAL	
TRAL AVENUE SE ITTE 201 DIFE NM 87106	
QUE, NM 87106 872-0999	
DAVID SOULE	- /
P.E. #14522	
rchitects	
I G II I L G G L S D Albuquerque, New Mexico	<u>8740</u> 9
fax 505 255	
RGE Project	No:
PTIST CHURCH	21635
	WCWJ
)RAIN ME Checked By:	
	ds
New Mexico 05.26	6.2017
Sheet No.	
C103	
0103	
SHEET OF	

COMPACT BERM TO 90% OF OPTIMUM

6" COBBLES TO BE HAND PLACED







Engineered Surface Drainage Products

PVC surface drainage inlets shall be of the inline drain type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

The inline drain required for this contract shall be manufactured from PVC pipe stock, utilizing a thermo-molding process to reform the pipe stock to the furnished configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to <u>ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals</u>. The flexible elastomeric seals shall conform to <u>ASTM F477</u>. The pipe bell spigot shall be joined to the inline drain body by use of a **swage mechanical joint**. The raw material used to manufacture the pipe stock that is used to manufacture the inline drain body and pipe stubs of the surface drainage inlets shall conform to <u>ASTM D1784 cell class</u> <u>12454</u>.

The grates furnished for all surface drainage inlets shall be ductile iron grates for sizes 8", 10", 12", 15", 18", 24" and 30" shall be made specifically for each fitting so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for inline drains shall be capable of supporting H-20 wheel loading for traffic areas or H-10 loading for pedestrian areas. 12" and 15" square grates will be hinged to the frame using pins. Metal used in the manufacture of the castings shall conform to <u>ASTM A536 grade 70-50-05 for ductile iron</u>. Grates shall be provided painted black.

INSTALLATION

GENERAL

The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in <u>ASTM D2321</u>. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with <u>ASTM D2321</u>. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For H-20 load rated installations, a concrete ring will be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to <u>ASTM D2321</u> guidelines.

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH	DRAWN BY	CJA	MATERIA	L			\sim	$\overline{}$	3130 VERONA AVE
NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT							(~		BUFORD, GA 30518
OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER. OR LICENSE THE USE OF THE DESIGN OR	DATE	03-10-00					Nada	hlast	PHN (770) 932-2443 FAX (770) 932-2490
TECHNICAL INFORMATION SHOWN HEREIN	REVISED B	Y NMH	PROJECT		/F			plasi	www.nyloplast-us.com
REPRODUCTION OF THIS PRINT OR ANY INFORMATION		1 140011	1100201	no mai			TITLE		
CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM. FOR THE DISCLOSURE TO OTHERS	DATE	03-15-16					8 IN - 30	IN INLINE DRAIN S	PECIFICATIONS
IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN									
PERMISSION FROM NYLOPLAST. ©2013 NYLOPLAST	DWG SIZE	Α	SCALE	1:1	SHEET	1 OF 1	DWG NO.	7003-110-009	REV H

