# CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



April 1, 2022

Ryan Morrissey, P.E. Burkhardt Engineering 28 North Cherry St. Germantown, OH, 45327

**RE:** Champion Xpress Car Wash

1520 Juan Tabo Blvd. NE Grading and Drainage Plan Grading and Drainage Plan

Engineer's Stamp Date: 03/18/2022

**Hydrology File: J22D031** 

Dear Mr. Morrisey:

Based upon the information provided in your submittal received on 3/28/2022, the Revised Grading and Drainage Plan is approved for Building Permit and SO-19 Permit.

PO Box 1293

Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter. Prior to approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be required.

Albuquerque

If the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, <u>jhughes@cabq.gov</u>, 924-3420) 14 days prior to any earth disturbance.

NM 87103

www.cabq.gov

Please provide Drainage Covenant for the stormwater quality ponds per Article 6-15(C) of the DPM prior to Permanent Release of Occupancy. Please submit an electronic file of the Covenant and Exhibit for completeness to Marion G. Velasquez at <a href="mayerlasquez@cabq.gov">mgvelasquez@cabq.gov</a>. Once the electronic file is approved for completeness, please submit the original copies along with the \$ 25.00 recording fee check made payable to Bernalillo County to Marion on the 4th floor of Plaza de Sol. Please note that Hydrology will need a pdf copy of the recorded Drainage Covenant prior to Hydrology's approval of Permanent Release of Occupancy.

If you have any questions, please contact me at 924-3695 or dggutierrez@cabq.gov.

Sincerely,

David G. Gutierrez, P.E. Senior Engineer, Hydrology Planning Department

Die Gul



# City of Albuquerque

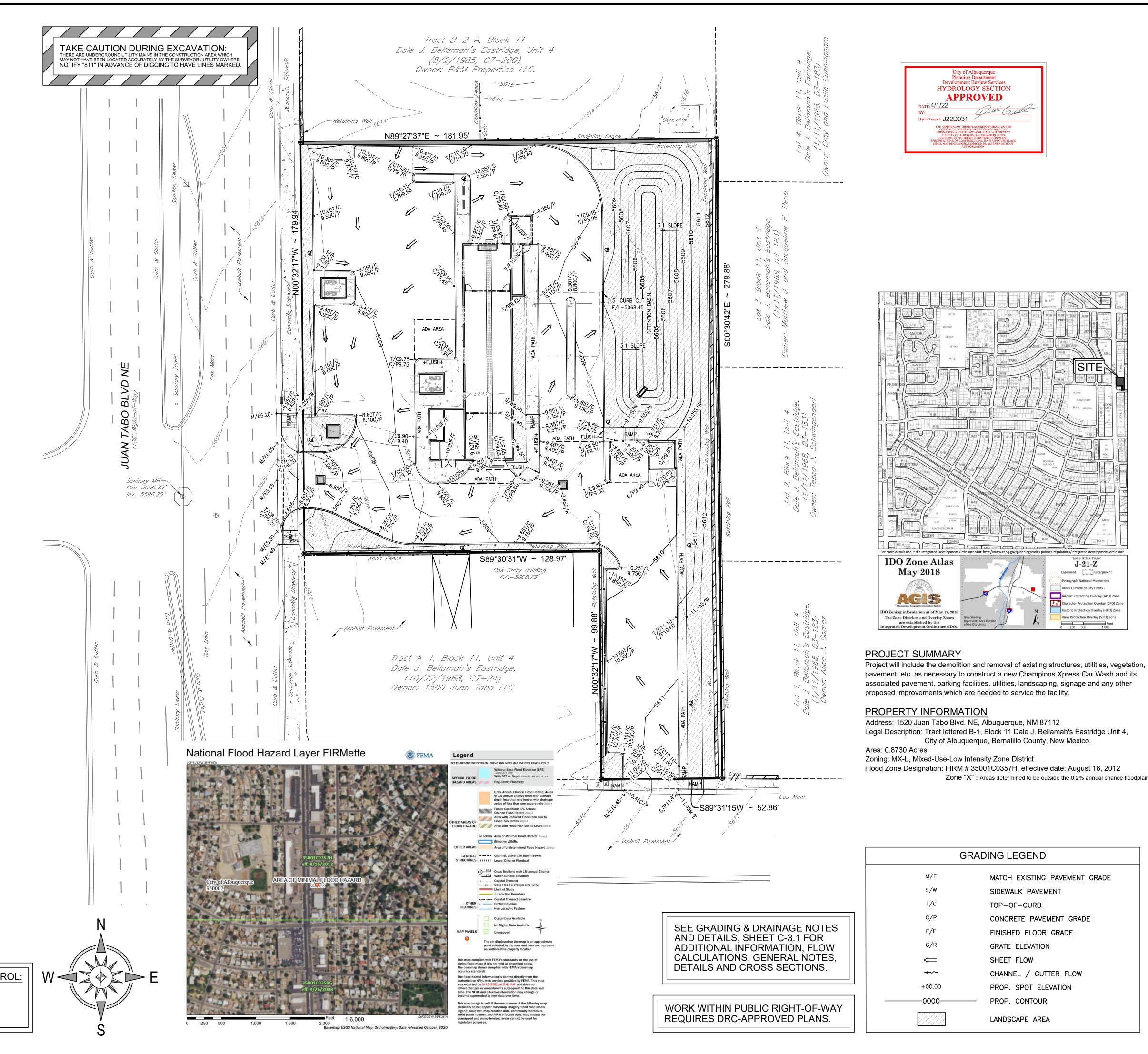
#### Planning Department

#### Development & Building Services Division

#### DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 10/2018)

Project Title:	Building	Permit #:	: Hydrology File #:	
DRB#:			Work Order#:	
Legal Description:				
City Address:				
Applicant:			Contact	
Address:Phone#:				
Other Contact:				
Address:				_
Phone#:				
TYPE OF DEVELOPMENT:	PLAT (# of lots)	RESIDENCE _	DRB SITE	ADMIN SITE
IS THIS A RESUBMITTAL? Y				
<b>DEPARTMENT:</b> TRAFFIC/TI		HYDROLOG	Y/DRAINAGE	
Check all that Apply:				PTANCE SOUGHT:
TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFICATION PAD CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE MASTER PLAN DRAINAGE REPORT FLOODPLAIN DEVELOPMENT PERMIT APPLIC ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC IMPACT STUDY (TIS) OTHER (SPECIFY) PRE-DESIGN MEETING?		BUILDING PERMIT APPROVAL  CERTIFICATE OF OCCUPANCY  PRELIMINARY PLAT APPROVAL  SITE PLAN FOR SUB'D APPROVAL  SITE PLAN FOR BLDG. PERMIT APPROVA  FINAL PLAT APPROVAL  SIA/ RELEASE OF FINANCIAL GUARANTE  FOUNDATION PERMIT APPROVAL  GRADING PERMIT APPROVAL  SO-19 APPROVAL  PAVING PERMIT APPROVAL  GRADING/ PAD CERTIFICATION  WORK ORDER APPROVAL  CLOMR/LOMR  FLOODPLAIN DEVELOPMENT PERMIT  OTHER (SPECIFY)		
DATE SUBMITTED:	By:			

FEE PAID:\_\_\_





HYDROLOGY SECTION **APPROVED** 

52 52

J-21-Z

Easement Escarpment

Petroglyph National Monument

Historic Protection Overlay (HPO) Zone

0 250 500 1,000

City of Albuquerque, Bernalillo County, New Mexico.

**GRADING LEGEND** 

M/E

S/W

T/C

Zone "X": Areas determined to be outside the 0.2% annual chance floodplain

MATCH EXISTING PAVEMENT GRADE

CONCRETE PAVEMENT GRADE

FINISHED FLOOR GRADE

CHANNEL / GUTTER FLOW

PROP. SPOT ELEVATION

SIDEWALK PAVEMENT

TOP-OF-CURB

GRATE ELEVATION

PROP. CONTOUR

LANDSCAPE AREA

SHEET FLOW

Areas Outside of City Limits Airport Protection Overlay (APO) Zone
Character Protection Overlay (CPO) Zone



Design: AFD Proj: 21.215 Draw: AFD Dwg: 21.215.dwg

Check: RJM Tab: C3.0-GP Scale: 1" = 20'

03.18.2022

**GRADING &** DRAINAGE PLAN

Sheet No.:

C - 3.0

PERMITTING CONTACT INFORMATION: PLANNING / ZONING / BUILDING

City of Albuquerque - Planning Department Contact: Brennon Williams Telephone: 505.924.3860 Email: bnwilliams@cabq.gov

# **UTILITY CONTACT INFORMATION:**

SANITARY SEWER / WATER Albuquerque Bernalillo County Water Utility Authority Contact: Robert Strong Telephone: 505.261.4429 Email: rstrong@abcwua.org

# STORM SEWER

City of Albuquerque - Planning Hydrology Department Contact: Renee Brissette Telephone: 505.924.3995 Email: rbrissett@cabq.gov

New Mexico Gas Company Contact: Jacob Gallegos Telephone: 505.697.3120 Email: Jacob.Gallegos@nmgco.com

# **ELECTRIC**

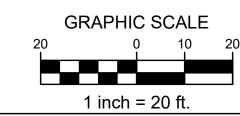
PNM (Public Service Company of New Mexico) Contact: Andrew Gurule Telephone: 505.241.0589 Email: Andrew.Gurule@pnm.com

TELECOM CenturyLink

Know what's below.

Call before you dig.

Contact: Customer Service Telephone: 865.465.2313





BM#1: Description: Chiseled 'X' in Sidewalk Elevation: 5605.91' BM#2: Description: Chiseled 'X' in Sidewalk Elevation: 5610.51'

# **Private Drainage Facilities within City Right-of-Way Notice to Contractor**

(Special Order 19 ~ "SO-19")

- 1. Build sidewalk culvert per COA STD DWG 2236. Work is permitted and inspected by DMD Construction Services Division.
- 2. An excavation permit will be required before beginning any work within City Right-of-Way.
- 3. 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.
- 4. Prior to any excavation, the contractor must contact New Mexico One Call, dial "811" [of (505) 260-1990] for the location of existing utilities.
- 5. Prior to construction, the contractor shalle xcavate 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 delay.
- 6. Backfill compaction shall be 95%.
- 7. Maintenance of the facility shall be the responsibility of the owner of the property being served.
- 8. Work on arterial streets may be required on a 24-hour basis.
- 9. For excavation and barricading inspections, contact DMD Construction Services Division.

#### STORM WATER MANAGEMENT NOTES:

Existing Lot Coverage - 100% impervious (20% Free Discharge) Proposed Lot Coverage - 75% impervious / 25% landscaping

\*\*\*Net Decrease in Storm Water Runoff due to Development\*\*\*

### **Albuquerque Development Process Manual**

Chapter 6, Section 2, Part A;

"A simplified procedure for projects with sub-basins smaller than 40 acres has been developed based on initial abstraction / uniform infiltration precipitation losses and Rational Method procedures."

For determining run-off rates, the SCS method was used to determine the existing run-off to Juan Tabo Blvd. This area is approximately 0.38 acres of land that is 95% impervious. The detention basin summary table below shows the run-off rates for the various storm events analyzed.

The proposed detention basin outlets to Juan Tabo Blvd at lower release rates than the existing conditions as shown in the table below.

Storm Water Quality Volume (WQv) = Impervious Area x 0.26 inches

# Precipitation Zone:

Precipitation Zone 3: "Between the San Mateo and Eubank"

# Drainage Summary:

Area = 0.87 acres

Treatment B (Desert Landscaping Area) - 25% = 0.22 acres Treatment D (Impervious Area) - 75% = 0.65 acres

100-year peak Discharge Rate = 3.73 cfs/acre (Table A-9)  $Q_{100} = 3.42 \text{ cfs}$ 

WQv = 618 cu-ft (required)

 $Q_{100} = 1.95 \text{ cfs (proposed)}$ 

# Provided Water Quality Storage Volume:

-		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<b>5</b>
Elevation	Contour Area	Incremental Vol.	∑Volume
(ft)	(sq-ft)	(cu-ft)	(cu-ft)
5604	10	0	0
5605	518	264	264
5606	1,100	809	1,073
5607	1,765	1,433	2,506
5608	2,474	2,120	4,625
5609	2,857	2,857	7,482

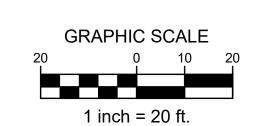
\*Average End Area Method used to calculate storage volumes.

# Stage Storage Discharge Su

Know what's below.

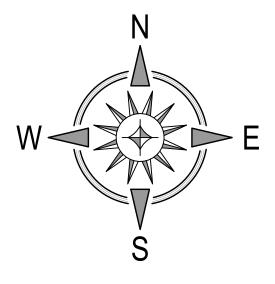
Call before you dig.

Stage Stora	age Discharge Sum	mary:	
Elevation	Storage Volume	Discharge	
(ft)	(sq-ft)	(cu-ft)	
5604	10	0	<del></del>
5605	264	0.03	
5605.55	709	0.14	Water Quality Volume
5606	1,073	0.76	
5607	2,506	1.58	
5608	4,625	6.89	
5609	7,482	7.91	





BM#1: Description: Chiseled 'X' in Sidewalk Elevation: 5605.91' BM#2: Description: Chiseled 'X' in Sidewalk Elevation: 5610.51'



TAKE CAUTION DURING EXCAVATION:

MAY NOT HAVE BEEN LOCATED ACCURATELY BY THE SURVEYOR / UTILITY OWNERS.
NOTIFY "811" IN ADVANCE OF DIGGING TO HAVE LINES MARKED.

Detention Basin Performance Summary:					
Storm	Allowable	Inflow	Outflow	Max Elevation	Storage Volume
(yr)	(cfs)	(cfs)	(cfs)	(ft)	(cu-ft)
1	0.54	0.86	0.13	5605.64	781
2	0.70	1.22	0.61	5605.90	988
5	0.91	1.70	0.91	5606.13	1,254
10	1.08	2.08	1.07	5606.29	1,489
25	1.30	2.60	1.25	5606.52	1,818
50	1.47	3.00	1.39	5606.70	2,076
100	1.65	3.42	1.51	5606.90	2,355

Tract B-2-A, Block 11

Dale J. Bellamah's Eastridge, Unit 4

(8/2/1985, C7-200)

Owner: P&M Properties LLC.

#

Tract A-1, Block 11, Unit 4

Dale J. Bellamah's Eastridge,

(10/22/1968, C7–24)

Owner: 1500 Juan Tabo LLC

Curb & Gutter

PRINCESS JEANNE AVENUE (50' Right-of-Way)

Curb & Gutter

Concrete Sidewalk A A A

 $\Rightarrow$ 

S89°30'31"W ~ 128.97'

One Story Building F.F.=5608.78'

N89°27'37"E ~ 181.95'

Concrete

### **Curb Cut Capacity** $Q = C*L*H^{(2/3)}$ Q = Flow Rate (capacity) C = 2.7L = 5'

H = 0.5" (top of curb)  $Q = 8.50 \text{ ft}^3/\text{sec}$ 

**Drainage Structure Orifice** Q = C\*A\*sqrt(2\*g\*h)C = 0.611A = 1" h = 0.9' = (5605.55-5603.75)/2  $Q = 0.39 \text{ ft}^3/\text{sec}$ 

∽S89°31'15W ~ 52.86'

-+----

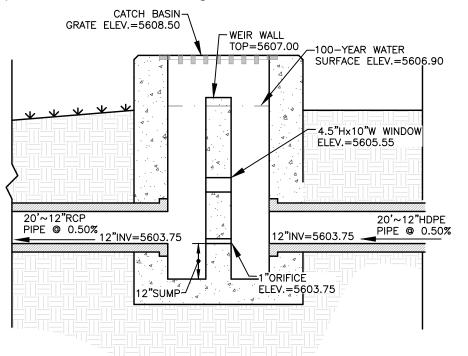
Drainage Structure Weir  $Q = C*L*H^{(2/3)}$ C = 2.7L = 5'H = 1.5' (top of weir to grate)  $Q = 17.69 \text{ ft}^3/\text{sec}$ 

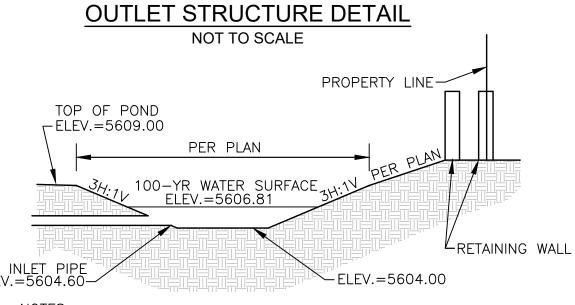
#### GENERAL GRADING, EARTHWORK & DRAINAGE NOTES

- 1. All spot elevations indicated in pavement areas are at bottom face of curb and/or finished pavement grade unless noted otherwise. All spot elevations indicated in grass or landscape areas are finished grade unless noted
- 2. The Contractor shall be responsible for the removal and disposal of all vegetation and organic materials from the site that results from clearing & grubbing activities.
- 3. The Contractor shall be responsible for stripping and removal of all excess topsoil from the site. All topsoil that cannot be used on site shall be removed from the site at the Contractor's expense. The Contractor may dispose of excess topsoil by burying topsoil in landscape areas only at the direction of the Owner or the Owner's Representative.
- 4. The Contractor will be responsible for all safety requirements and for the protection of all existing and proposed utilities or structures during earthwork
- 5. The Contractor shall be responsible for the import of structural fill materials if suitable material is not available on site. The location and testing of suitable material shall be the Contractor's responsibility. The Contractor shall be responsible for the export and disposal of all excess or unsuitable materials.
- 6. The Contractor shall provide construction dewatering as necessary to complete construction as outlined in plans.
- 7. The Contractor shall exercise extreme care in establishing all grades and slopes in pavement areas, ramps and sidewalks in the vicinity of handicap parking and access areas and shall comply with Federal, State, and Local
- 8. In areas where sheet drainage flows from grass or landscape areas onto paved areas, the finished grade in grass or landscape areas shall be 1/2 inch above the top of curb or above the pavement in areas without curb. In areas where sheet drainage flows from pavement to grass or landscaped areas, the finished grade in grass or landscape areas shall be 1/2 inch below the pavement.
- 9. The Contractor shall provide positive drainage in all areas and away from all
- 10. All pavement shall be laid on a straight, even, and uniform grade with a minimum of 1:100 (1.0%) slope toward the collection points unless otherwise specified on plans. Cut or fill slopes in unpaved areas shall not exceed 3:1 (33.3%) maximum grade unless otherwise noted on plans.
- 11. ADA accessible areas shall not exceed the following slopes:

Ramps - 1:12 (8.3%) max. Routes - 1:20 (5.0%) max. Parking - 1:50 (2.0%) max. Cross Slopes - 1:50 (2.0%) max.

- 12. The Contractor shall adjust tops/lids/grates of all cleanouts, manholes, inlets, valves, etc. to match final grade.
- 13. Following grading of subsoil to subgrade elevations, the Contractor shall provide 4" of topsoil (minimum) in all disturbed areas which are not to be paved. Final grades should be smoothly finished to surrounding areas and ensure positive drainage. Stockpiled topsoil shall be screened prior to respreading and should be free of subsoil, debris, and stones.
- 14. The Contractor shall be responsible for determining exact quantities of cut and/or fill for estimating and construction and should alert the Engineer of any excessive cut and/or fill, especially if additional cut and/or fill will be required due to poor existing soil conditions discovered during earthwork
- 15. Refer to the Architectural and Structural Plans for information regarding any perimeter foundation drains.
- 16. The Contractor shall obtain a copy of the Geotechnical / Soils Report and become thoroughly familiar with site and subgrade information and fully implement recommendations given therein.





1. GRADE OR EXCAVATE CROSS SECTION TO LINES AND GRADES SHOWN ON THE PLANS ACCORDING TO REQUIREMENTS IN THE GEOTECHNICAL REPORT. **WQv AREA SECTION** 

NOT TO SCALE



FOR RESS MASH DE 52(



Design: AFD Proj: 21.215

Draw: AFD Dwg: 21.215.dwg Check: RJM Tab: C3.1-GP Scale: 1" = 20'

03.18.2022

**GRADING &** DRAINAGE NOTES AND DETAILS

**し-**3.