PLANNING COMMISSION AGENDA
CITY OF PRAIRIE VILLAGE
TUESDAY, FEBRUARY 1, 2022
7:00 P.M.

The Planning Commission will be meeting remotely via Zoom. To watch the meeting, click the following link: https://us02web.zoom.us/j/84884970197. The meeting will also be live-streamed on the City of Prairie Village Facebook page at http://www.facebook.com/CityofPrairieVillage.

Residents may email comments to City Clerk Adam Geffert at cityclerk@pvkansas.com. All comments must be received by 5:00 p.m. on Tuesday, February 1.

I. ROLL CALL

II. APPROVAL OF PLANNING COMMISSION MINUTES – JANUARY 4, 2022

III. OLD BUSINESS

IV. PUBLIC HEARINGS

None

V. NON-PUBLIC HEARINGS

PC2022-102 Site Plan Approval for Building Addition
Shawnee Mission East High School
7500 Mission Road
Zoning: R-1A
Applicant: Duane Cash, Insight Design Studio

VI. OTHER BUSINESS

Election of Chair, Vice-Chair and Secretary

VII. ADJOURNMENT

***Any Commission members having a conflict of interest, shall acknowledge that conflict prior to the hearing of an application, shall not participate in the hearing or discussion, shall not vote on the issue and shall vacate their position at the table until the conclusion of the hearing.**

PLANNING COMMISSION MINUTES
JANUARY 4, 2022

ROLL CALL

The Planning Commission of the City of Prairie Village met in regular session on Tuesday, January 4, 2022 at 7:00 p.m. Due to the COVID-19 pandemic, Commission members attended a virtual meeting via the Zoom software platform. Chair Greg Wolf called the meeting to order at 7:00 p.m. with the following members present: Jonathan Birkel, James Breneman, Patrick Lenahan, Melissa Brown, Nancy Wallerstein and Jeffrey Valentino.

The following individuals were present in their advisory capacity to the Planning Commission: Chris Brewster, Gould Evans; Jamie Robichaud, Deputy City Administrator; Mitch Dringman, Building Official; Greg Shelton, Council Liaison; Adam Geffert, City Clerk/Planning Commission Secretary.

APPROVAL OF MINUTES

Mr. Breneman moved for the approval of the minutes of the December 7, 2021 regular Planning Commission meeting. Mrs. Wallerstein seconded the motion, which passed 5-0, with Mr. Wolf and Mr. Lenahan in abstention.

PUBLIC HEARINGS

None

NON-PUBLIC HEARINGS

PC2022-101 Revised Site Plan
Homestead Country Club
4100 Homestead Court
Zoning: R-1A
Applicant: Jeff Pflughoft

Mr. Brewster stated that the application was for revisions to a site plan associated with an approved special use permit, which requires Planning Commission approval. The initial application for the revisions was denied by the Planning Commission at its November 2021 meeting due to a lack of detailed information about the proposed projects, which include the following items:

- A 15' x 18' storage shed. R-1A zoning districts allow up to three accessory structures for non-residential uses, limited to 300 square feet each and 16' tall.

There are no particular design standards for these types of buildings; generic storage sheds are allowed provided they meet all setbacks, are generally not visible from the right-of-way, and are appropriately landscaped. The structure will be placed in a well-landscaped area and will not visible from any adjacent property or right-of-way.

- A 65' x 65' enclosed pickleball structure between the enclosed tennis courts, a small accessory structure, and the clubhouse. The applicant is proposing a prefabricated, corrugated metal structure, finished with gray walls and a bronze roof and gutter system, matching the colors of the enclosed tennis structure and coordinated with the colors of the main clubhouse. Due to its size, the building is not eligible for the general accessory building standards and needs to meet building design criteria. The building is located internally on the site at a transition between the clubhouse and the enclosed tennis structure.

  The enclosed pickleball court will feature a similar utilitarian design as the tennis enclosure, with a 16' x 8' overhead door on the west elevation, and a 3' x 7' entry door on the south elevation. Due to the location of the building and its smaller scale relative to the tennis structure, there is not a significant impact on the adjacent properties, provided all perimeter landscaping is maintained. The building is located in an internal landscape area near the entry to the club and is visible at the entry to the site from Homestead Court, with a similar relationship and perspective provided by the east and north elevations of the larger tennis structure. The landscape of the front lawn area is an important attribute of this site in relation to Homestead Court.

- A 72' x 50' covered poolside deck. A dense evergreen screen addition is proposed on the south boundary near this structure. The closest point of this structure to adjacent properties is at the southeast corner, at which it is approximately 48.5' from the south property line. Due to the angle of the property line and the orientation of the covered patio, this distance increases significantly on either side of this closest corner. The structure is proposed to have a pre-finished metal roof with the same color and finishes as the adjacent building: dark bronze, with gray painted steel posts.

Mr. Brewster said staff recommended approval of the revised site plan with the following conditions:

1. Approval of the accessory structure west of the tennis enclosure, based on existing and proposed landscape screening.

2. Approval of the enclosed pickleball structure, provided the Planning Commission determination of the following:

   a. Based on additional design details provided by the applicant, and the relative scale, location, and relationship to the larger tennis structure, it may be compatible with the clubhouse and the tennis structure.

b. The relationship of the proposed building to the streetscape and to adjacent properties will not present a greater impact than the current situation.

c. Additionally, the tree preservation plan presented with the resubmitted plan is followed so that the three mature trees in the front lawn area are protected and preserved through construction, according to ordinance requirements. In addition, staff recommends that two additional street trees be planted, along the frontage of Homestead Court to maintain the long-term tree canopy and reinforce the prominence of the shaded lawn as the entry feature for the site and clubhouse.

3. Approval of the proposed poolside covered deck, subject to the submitted elevations and coordinating element, and based on the existing and proposed landscape screening.

The following additional conditions were part of the partial approval of the revised site plan by the Planning Commission in July 2021:

4. The applicant and the City (via Public Works) explore prohibiting parking on one side of Homestead Court, and the applicant specifically implements parking management processes and policies that reduce the practice of parking on Homestead Court to overflow situations, only and that no members or employees routinely park on the street when other available parking exists.

5. The revised court configuration (13 tennis courts and 10 pickleball courts) is approved, provided pickleball courts are located in the central-most portions of the court areas near the clubhouse. This is intended to place the more intense activity and potential noise increases that result from pickleball furthest from adjacent residential areas.

6. Landscape for the increased 50' of parking lot perimeter on the north boundary be added to meet the ordinance requirement (5 shrubs for 25 feet of perimeter), or if grade or existing plantings make this impractical, the applicant work with staff to plant additional evergreens or other type of barrier that meets the intent of the standard.

7. No other changes to the site are authorized, and any new configuration of the site, to include courts, lighting, traffic and parking control, or other facilities shall require staff review and a revised site plan or amended special use permit.

Mr. Breneman suggested that the number of trees required to be planted in Section 2-c be changed from two to three. After further discussion, commissioners agreed to change the language in the section to "staff recommends that two additional street trees be planted (three, if possible), along the frontage of Homestead Court".

Mr. Birkel suggested that 6 to 8 trees, specifically evergreen varieties, be planted within 5' to 10' of the pickleball structure to better hide the building.

Applicant Jeff Pflughoft, Purchasing Manager for Hulsing Hotels, 4100 Homestead Court, was present to speak about the project. He stated that he did not anticipate adding HVAC service to the pickleball structure, and that no additional exterior lighting would be installed. He also noted that he was agreeable with staff recommendations, and was willing to add 6 to 8 trees around the perimeter of the pickleball structure, per Mr. Birkel's request.

Mr. Birkel made a motion to approve the revised site plan with staff recommendations, including the planting of 6 to 8 trees around the perimeter of the pickleball structure. Mr. Breneman seconded the motion, which passed 7-0.

OTHER BUSINESS

None

ADJOURNMENT

With no further business to come before the Commission, Chair Greg Wolf adjourned the meeting at 7:38 p.m.

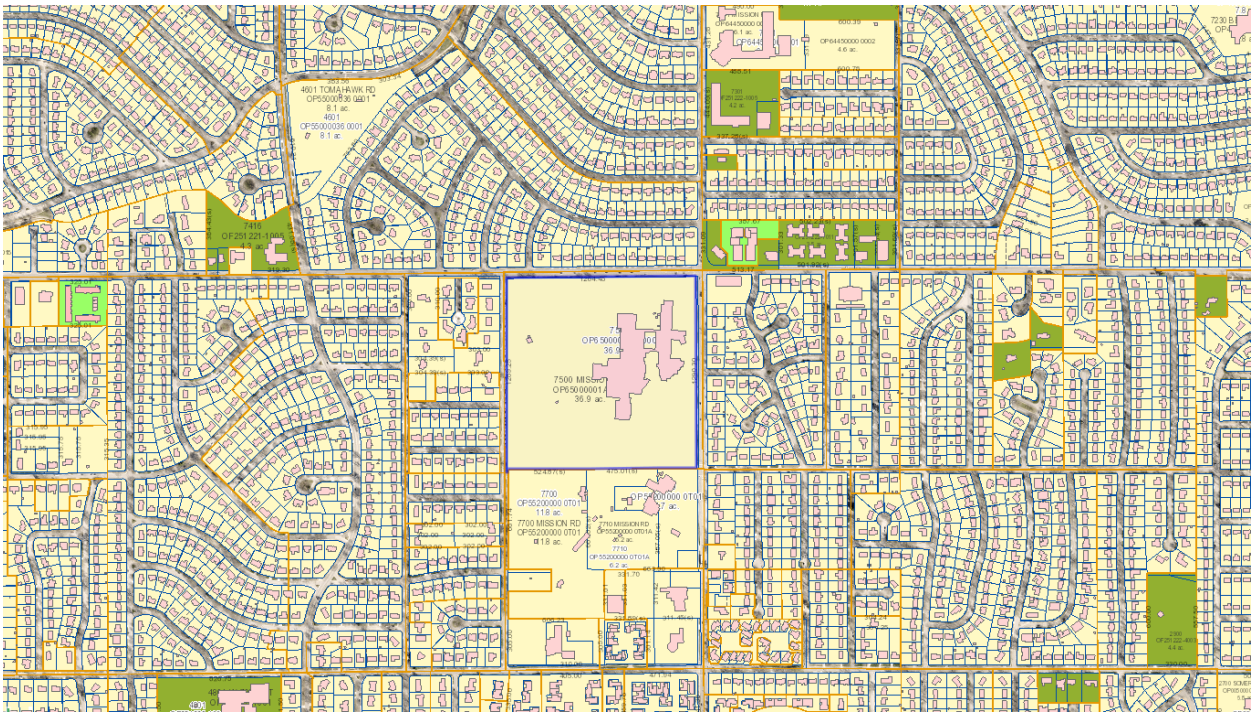
Adam Geffert
City Clerk/Planning Commission Secretary

STAFF REPORT

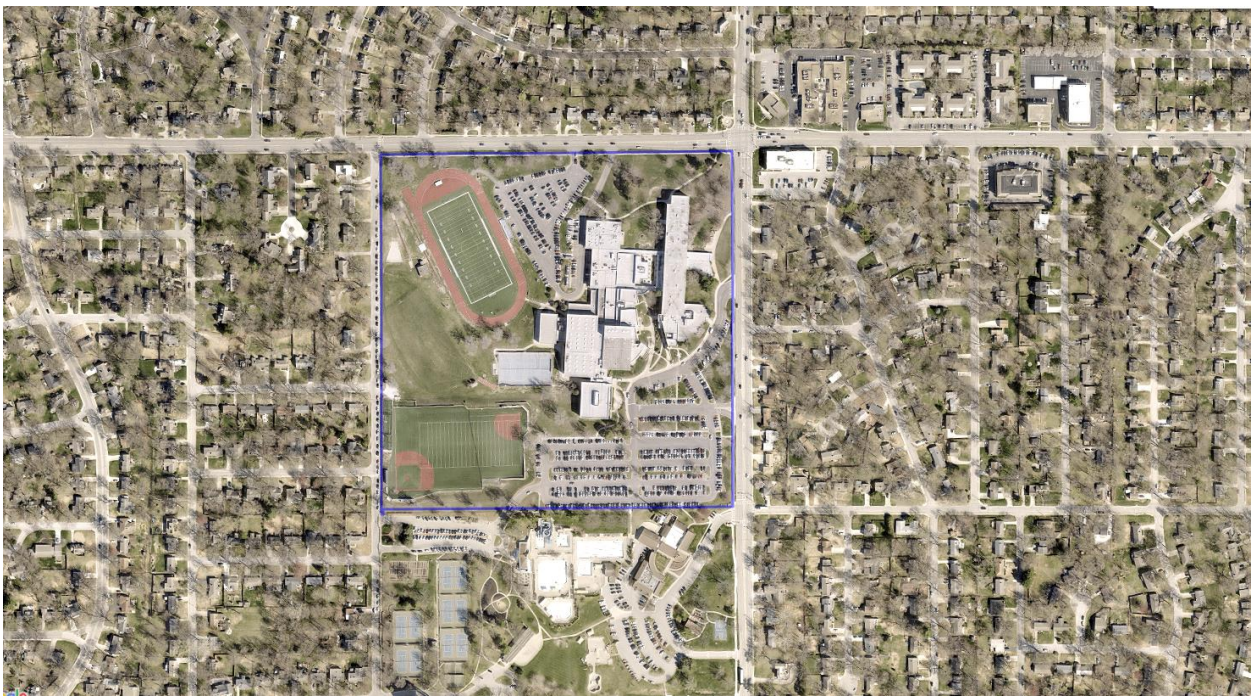
TO: Prairie Village Planning Commission
FROM: Chris Brewster, Gould Evans, Planning Consultant
DATE: February 4, 2022 Planning Commission Meeting

Application:	PC 2022-102
Request:	Site Plan for addition to Shawnee Mission East
Action:	*A Site Plan requires the Planning Commission to apply the facts of the application to the standards and criteria of the ordinance, and if the criteria are met to approve the application.*
Property Address:	7500 Mission Road
Applicant:	Duane Cash, Incite Design Studio, for Shawnee Mission School District (Unified School District # 512, Owner)
Current Zoning and Land Use:	R-1A Single-Family Residential – SME High School
Surrounding Zoning and Land Use:	**North:** R-1B Single-Family Residential - Single-Family Dwellings **East:** C-O Commercial Office – Office Building; R-1A Single-Family Residential - Single-Family Dwellings and Office Buildings **South:** R-1A Single-Family Residential – Municipal Complex **West:** R-1A Single-Family Residential - Single-Family Dwellings: R-1B Single-Family Residential – Single-Family Dwellings
Legal Description:	School Block 1, except east 12 feet
Property Area:	36.94 acres (1,608,976.10 sq.ft.)
Related Case Files:	PC 2015-106 Site Plan – Monument Sign PC 2007-106 Site Plan PC 97-01 SUP for Storage Building
Attachments:	Application, Site Plan

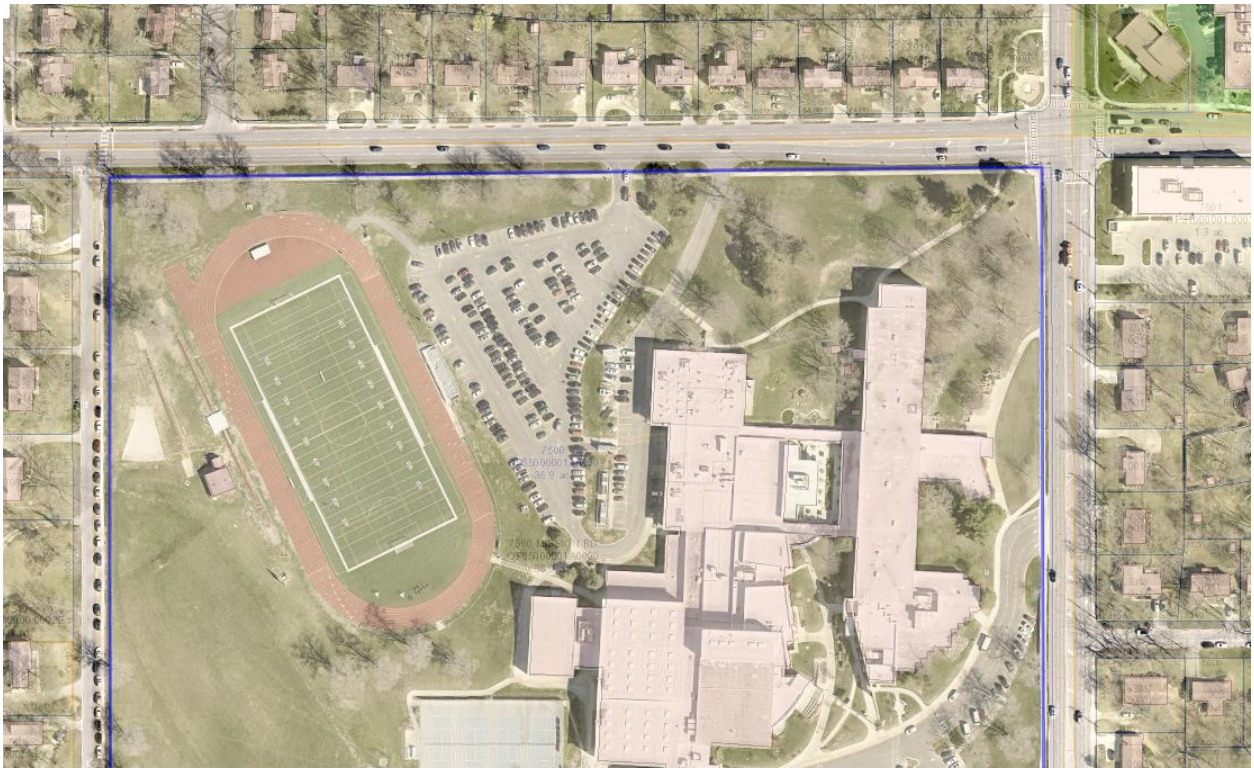
General Location Map



Aerial Map



Site



Aerial view of site

Bird's eye view of block

Background:

The applicant is proposing a 7,600 square feet, 2-story addition on the north side of the existing high school building, including multipurpose learning space, two classrooms, storage, and outdoor environmental learning space. The existing building is approximately 375,000 square feet with a total footprint of 210,000 square feet. The addition is in the courtyard area framed by two existing wings of the building that each extend further to the south and closer to 75th Street. The total disturbed area for the project is approximately 0.6 acres.

Site Plan Criteria:

This application is a revision to a site plan associated with an approved special use permit. The revisions are within the special use permit parameters, but revisions to the site plan require Planning Commission approval. The following are the site plan review criteria: [Section 19.32.030]

A. Generally.

1. **The plan meets all applicable standards**
2. **The plan implements any specific principles or policies of the comprehensive plan that are applicable to the area or specific project.**
3. **The plan does not present any other apparent risks to the public health, safety, or welfare of the community**.

This property is zoned R-1A and institutional uses including schools are allowed in R-1A. The site is a very large parcel that is part of the municipal compete block, including other public and institutional uses. The campus layout of the site meets all standards applicable to institutional uses in residential districts, and the proposed plan is consistent with the comprehensive plan designation of this area as a civic center.

B. Site Design and Engineering.

1. **The plan provides safe and easy access and internal circulation considering the site, the block and other surrounding connections, and appropriately balances vehicle and pedestrian needs.**
2. **The plan provides or has existing capacity for utilities to serve the proposed development.**
3. **The plan provides adequate stormwater runoff.**
4. **The plan provides proper grading considering the prevailing grades and the relationship of adjacent uses.**

No specific changes to access and parking are proposed with this plan. The plan does include building access and site circulation plans that impact accessibility and public safety issues that will that are reviewed at the permit stage, and these plans demonstrate consistency with those subsequent review requirements. The addition is a minor element of the overall existing building and campus, and does not warrant any additional parking or access needs.

The applicant has submitted a Stormwater Management Study dated January 6, 2022, that is being reviewed by Public Works, and will require authorization of a drainage permit before building permits will be granted.

C. Building Design.

1. **The location, orientation, scale, and massing of the building creates appropriate relationships to the streetscape and to adjacent properties.**
2. **The selection and application of materials will promote proper maintenance and quality appearances over time.**
3. **The architectural design reflects a consistent theme and design approach. Specifically, the scale, proportion, forms and features, and selection and allocation of materials reflect a coordinated, unified whole.**
4. **The building reinforces the character of the area and reflects a compatible architectural relationship to adjacent buildings. Specifically, the scale, proportion, forms and features, and materials of adjacent buildings inform choices on the proposed building.**

The proposed addition is a 7,600 square feet, 2-story building incorporated into the grade of an internal courtyard on the north end of the existing building. The addition and the associated outdoor environmental learning area is situated in a courtyard between two existing wings that extend further towards 75th Street. The addition and most prominent view is on the north elevation, although it is a minor component of the overall elevation on this side, which is predominantly red brick with stone accents and metal wall panels for screening. The addition includes stone masonry in an ashlar pattern (layered, random pattern similar to irregular bricks), a blue phenolic wall panel (layered epoxy resins). The largest component is a 2-story glazing that opens to the outdoor learning commons and has a stubble silhouette mural of a Lancer.

The proposed addition meets all building design criteria in the site plan review standards.

D. Landscape Design.

1. **The plan creates an attractive aesthetic environment and improves relationships to the streetscape and adjacent properties.**
2. **The plan enhances the environmental and ecological functions of un-built portions of the site.**
3. **The plan reduces the exposure and adverse impact of more intense activities or components of the site or building.**

The area of the work is primarily within a courtyard area between two wings on the northern end of the building. The building and the outdoor learning space is between 160 and 280 feet from 75th Street and do not have a direct relationship to the streetscape due to distance and topography. The outdoor environmental learning area will be fenced in and include native plant gardens, decorative gravel, concrete hardscape areas, and stepped native grass terraces with concrete retaining walls. The fence will be chain link with a fabric mesh screen. The landscape plan includes 3 trees, 35 shrubs, and a large quantity of perennial plantings within this area. Landscape outside of the area of work is not impacted.

Permitted non-residential uses in R-1A must comply with the landscape standards in 19.47, and specifically the tree protection provisions of 19.47.060. [19.47.010.(b)(2) and 19.47.060(a)(2)] In this case, any trees within the buildable area that exceed 6" caliper need to be replaced with a 1 for 1 replacement, and any trees over 30" caliper may only be authorized for removal under specific conditions and require a 1 tree for each 15" replacement. This plan proposes removing the following trees, which would trigger the listed mitigation:

- *18" maple tree 1 replacement tree*
- *28" unspecified tree 1 replacement tree*
- *34" sweet gum tree 3 replacement trees + authorization*
- *38" locust 3 replacement trees + authorization*

The plan proposes planting 3 trees, while the ordinance requires 8 replacement trees. The large trees, requiring special authorization for removal meet the conditions in 19.47.060(e) – under condition (e)(3). The addition is immediately adjacent to the existing building and internal to a courtyard, and adjustments to the building layout to work around the trees would not be practical. In addition, the trees are being replaced with a native landscape area. However, by ordinance, 5 additional trees are required. There is a large lawn area between the proposed work and street with adequate tree cover including several trees of various sizes, age, and condition. However, to maintain a healthy long-term canopy, the replacement trees could be planted in this area.

The proposed plan meets all of the landscape design criteria in the site plan review standards, except 5 additional replacement trees should be located on the site between the work area and the streetscape.

RECOMMENDATION:

Staff recommends approval of the site plan for the building addition and outdoor environmental learning space at 7500 Mission Road subject to the following condition:

1. 5 additional replacement trees be planted between the proposed addition and 75th Street.

Cust# 22502
App# 00027766

CITY OF PRAIRIE VILLAGE

The Star of Kansas

Planning Commission Application

For Office Use Only	
Case No.:	PC 2022-102
Filing Fee:	100.00
Deposit:	500.00
Date Advertised:	
Date Notices Sent:	
Public Hearing Date:	

Please complete this form and return with Information requested to:

Assistant City Administrator
City of Prairie Village
7700 Mission Rd.
Prairie Village, KS 66208

Applicant: Duane Cash Phone Number: 913.381.4437

Address: 7200 West 75th St. Overland Park, KS 66204 E-Mail dcash@incitedesignstudio.com

Owner: Unified School District #512 Contact: Tyler Clubb, Director of Facilities Phone Number: 913.993.6200

Address: 8200 West 71st St. Overland Park, KS Zip: 66204

Location of Property: 7500 Mission Rd, Prairie Village, KS 66208

Legal Description: SHAWNEE MISSION EAST HIGH SCHOOL BLK 1 EX E 12' PVC 567B BTAO 4137-0

Applicant requests consideration of the following: (Describe proposal/request in detail) Building addition (7600 SF) on the north side of the school that provides a multipurpose learning space, two classrooms, storage, interior accessible path of travel, and outdoor environmental learning space.

AGREEMENT TO PAY EXPENSES

APPLICANT intends to file an application with the PRAIRIE VILLAGE PLANNING COMMISSION or the PRAIRIE VILLAGE BOARD OF ZONING APPEALS of the CITY OF PRAIRIE VILLAGE, KANSAS (City) for $600.00.
As a result of the filing of said application, CITY may incur certain expenses, such as publication costs, consulting fees, attorney fees and court reporter fees.

APPLICANT hereby agrees to be responsible for and to CITY for all cost incurred by CITY as a result of said application. Said costs shall be paid within ten (10) days of receipt of any bill submitted by CITY to APPLICANT. It is understood that no requests granted by CITY or any of its commissions will be effective until all costs have been paid. Costs will be owing whether or not APPLICANT obtains the relief requested in the application.

01/07/22
Applicant's Signature/Date

01/07/22
Owner's Signature/Date

EAST HIGH SCHOOL REMODEL & ADDITION

SHAWNEE MISSION SCHOOL DISTRICT

100% BID PACKAGE
01/06/2022

EXTERIOR RENDERING

DRAWING INDEX

GENERAL		A5.1	EXTERIOR ELEVATIONS	S5.4	FOUNDATION SECTIONS
G0.1	SHEET INDEX	A6.1	BUILDING SECTIONS	S5.5	FOUNDATION SECTIONS
G0.2	SYMBOLS & ABBREVIATIONS	A7.1	WALL SECTIONS	S5.6	FOUNDATION SECTIONS
G0.3	WALL TYPES	A7.2	WALL SECTIONS	S6.1	FRAMING SECTIONS
G0.4	ADA MOUNTING HEIGHTS	A7.3	WALL SECTIONS	S6.2	FRAMING SECTIONS
G1.1	CODE INFORMATION	A8.1	VERTICAL CIRCULATION PLANS & DETAILS	S7.1	ROOF FRAMING SECTIONS
G1.2	FIRST & SECOND FLOOR CODE PLANS	A8.2	VERTICAL CIRCULATION PLANS & DETAILS	S7.2	ROOF FRAMING SECTIONS
G1.3	THIRD, FOURTH & FIFTH FLOOR CODE PLANS	A8.3	VERTICAL CIRCULATION PLANS & DETAILS	S8.1	BRACE ELEVATIONS
		A8.4	VERTICAL CIRCULATION PLANS & DETAILS	S9.1	SITE RETAINING WALL SCHEDULE
CIVIL		A9.1	DOOR SCHEDULE, ELEVATIONS & FRAME TYPES		
C010	DEMOLITION PLAN	A9.2	DOOR AND WINDOW DETAILS	MECHANICAL / ELECTRICAL	
C100	SITE PLAN	A10.1	TYPICAL BUILDING DETAILS	ME100	SYMBOLS LEGEND
C101	DIMENSION PLAN	A10.10	BUILDING SECTION DETAILS	ME201	MEP ROOF PLAN
C200	GRADING PLAN	A10.11	BUILDING SECTION DETAILS		
C300	EROSION CONTROL PRE-CONSTRUCTION	A10.12	BUILDING SECTION DETAILS	PLUMBING	
C301	EROSION CONTROL MID-CONSTRUCTION	A10.13	BUILDING SECTION DETAILS	P100	UNDERGROUND & SECOND FLOOR ADDITION PLUMBING PLANS
C302	EROSION CONTROL POST-CONSTRUCTION	A10.14	BUILDING SECTION DETAILS	P101	THIRD FLOOR ADDITION PLUMBING PLAN
C400	EROSION CONTROL DETAILS 1	A10.20	BUILDING PLAN DETAILS	P102	RESTROOM RENOVATION PLUMBING PLANS
C500	STORM PLAN	A11.0A	FINISH LEGEND AND ROOM FINISH SCHEDULE	P301	PLUMBING DETAILS
C501	STORM PLAN & PROFILE	A11.1	FINISH FLOOR PLANS - ENLARGED ADDITION	P401	PLUMBING SCHEDULES
C600	CONSTRUCTION DETAILS 1	A11.2	FINISH FLOOR PLANS - ENLARGED TOILETS		
C601	STORM DETAILS 1	A11.10	INTERIOR ELEVATIONS	MECHANICAL	
		A11.11	INTERIOR ELEVATIONS	M100	FIRST FLOOR ADDITION HVAC PLAN
LANDSCAPE		A11.12	INTERIOR ELEVATIONS	M101	SECOND & THIRD FLOOR ADDITION HVAC PLANS
L1.0	HARDSCAPE FINISH PLAN	A11.13	INTERIOR ELEVATIONS	M102	RESTROOM RENOVATION HVAC PLAN
L1.1	SITE DETAILS	A11.14	INTERIOR ELEVATIONS - TOILETS	M301	MECHANICAL DETAILS
L2.0	LANDSCAPE PLAN	A12.1	MILLWORK PLANS & DETAILS	M401	MECHANICAL SCHEDULES
L2.1	LANDSCAPE DETAILS	A13.0	FURNITURE PLAN	M501	CONTROLS DIAGRAM
ARCHITECTURAL		STRUCTURAL		ELECTRICAL	
AS1.1	ARCHITECTURAL SITE PLAN	S0.1	GENERAL NOTES	E001	OVERAL POWER PLAN
AD1.1	FIRST FLOOR PLAN - DEMO	S0.2	SCHEDULES	E101	FLOORS 2 & 3 ADDITION LIGHTING PLAN
AD1.2	SECOND FLOOR PLAN - DEMO	S0.3	CMU DETAILS	E102	LOCKER ROOM RENOVATION LIGHTING PLANS
AD1.3	THIRD FLOOR PLAN - DEMO	S0.4	CONCRETE PILASTER DETAILS	E103	FLOORS 2 & 4 RENOVATION LIGHTING PLANS
AD1.4	FOURTH FLOOR PLAN - DEMO	S0.5	3D VIEW	E201	NEW ADDITION POWER PLAN
A1.1	FIRST FLOOR PLAN	S0.6	3D VIEW	E202	LOCKER ROOM RENOVATION POWER PLANS
A1.2	SECOND FLOOR PLAN	S1.2	LEVEL 2 STRUCTURAL PLAN	E203	FLOORS 2 & 4 RENOVATION POWER PLANS
A1.3	THIRD FLOOR PLAN	S1.3	LEVEL 3 STRUCTURAL PLAN	E401	ELECTRICAL DETAILS
A1.4	FOURTH FLOOR PLAN	S2.1	PARTIAL PLANS	E501	ELECTRICAL SCHEDULES
A2.1	ENLARGED FLOOR PLANS	S4.1	ROOF FRAMING PLAN		
A2.2	ENLARGED FLOOR PLANS	S5.1	FOUNDATION SECTIONS		
A2.3	ENLARGED FLOOR PLANS	S5.2	FOUNDATION SECTIONS		
A4.1	ROOF PLAN & DETAILS	S5.3	FOUNDATION SECTIONS		

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MEP ENGINEER

RTM ENGINEERING CONSULTANTS
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OVERLAND PARK, KS 66210
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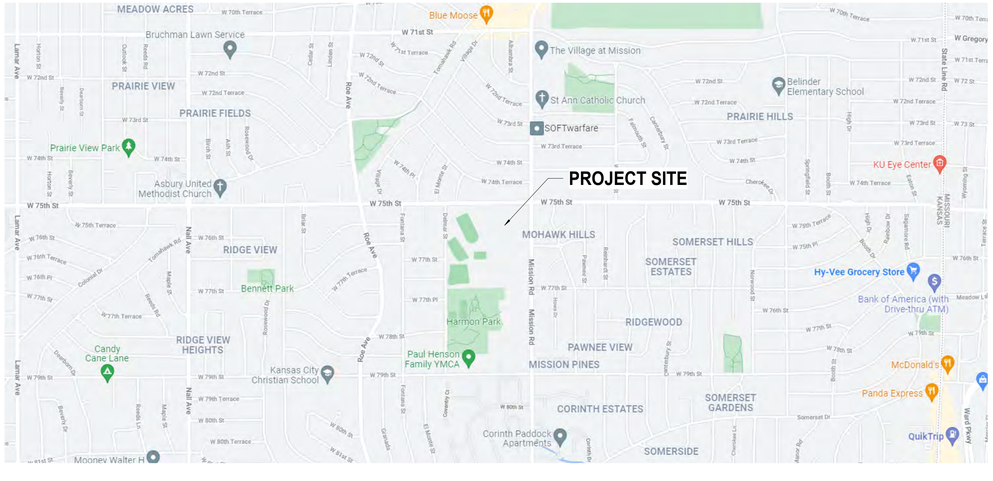
NEWKIRK NOVAK CONSTRUCTION PARTNERS
11200 W. 79TH STREET
LENEXA, KS 66214
PHONE: 913-312-9535

LANDSCAPE ARCHITECT

VIREO
929 WALNUT, SUITE 700
KANSAS CITY, MO 64106
PHONE: 816-756-5690

LOCATION: 7500 MISSION ROAD, PRAIRIE VILLAGE, KS 66208



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913.312.9535

Licensed Architect
DUANE CASH

License
KS #7083

Cert. of Authority
A-543
INCITE DESIGN STUDIO, LLC

DUANE A. CASH LICENSED 7083 1-6-2022 KANSAS ARCHITECT

EAST HIGH SCHOOL REMODEL & ADDITION

7500 MISSION ROAD
PRAIRIE VILLAGE, KS 66208

Project Phase
100% BID PACKAGE

Project Number
20-304

Issue Date
01/06/2022

Revision No.	Description	Date Issued

Area Plan

Sheet Name
SHEET INDEX

Sheet Number
G0.1

in • cite *v.* to provoke thought

1/7/2022 11:51:14 AM
C:\Users\chris.smith\Documents\ADD_SMSD East High School_Remodel & Addition_smithcm.rvt

EXISTING BUILDING AREA													
	BLDG 1	BLDG 2	BLDG 3	BLDG 4	BLDG 5*	BLDG 6	BLDG 7	BLDG 8	BLDG 9	BLDG 10	BLDG 11	BLDG 12	TOTAL*
OPEN FRONTAGE (FEET)	498	605	338	495	454	362	121	340	284	324	203	340	
PERIMETER (FEET)	592	994	415	984	1364	455	181	502	491	544	350	510	
INCREASE (%)	0.59	0.36	0.56	0.25	0.08	0.55	0.42	0.43	0.33	0.35	0.33	0.42	
FIRST FLOOR	13,300	25,800	9,525	11,780	8,390	12,575							
SECOND FLOOR	15,800	42,880		23,970	31,301	11,447							
THIRD FLOOR					2,845		1,850	11,709	8,828	10,914	3,471		
FOURTH FLOOR							1,850	12,130	8,330	13,282	5,455	10,243	
FIFTH FLOOR							1,850	12,130	2,040	14,008			
TOTAL	29,100	68,680	9,525	35,750	42,536	24,022	5,500	35,969	19,198	38,204	8,926	10,243	327,653
OCCUPANCY	A3, A4	A1, A2, A3	A3, A4	A3, E	S2, E, A2	H3, E, F1	E	E	A3, B, E	A1, E	B, E	A3	
CONSTRUCTION TYPE	IIB	IIB	IIB	IIB	IIB	IIB	IIB	IIB	IIB	IIB	IIB	IIB	
TABULAR AREA	9,500	9,500	9,500	14,500	SEE CALC	14,500	14,500	14,500	14,500	14,500	14,500	14,500	
STORIES	2	2	1	2	2	2	3	3	3	3	2	1	
FRONTAGE INCREASE	0.59	0.36	0.56	0.25	.08	0.55	0.42	0.43	0.33	0.35	0.33	0.42	
SPRINKLER INCREASE	2	2	0	2	SEE CALC	0	0	0	0	0	0	0	
ALLOWED AREA PER FLOOR	34,117	31,907	14,862	47,169	SEE CALC	22,411	20,568	20,698	19,262	19,511	19,285	20,542	
PROPOSED MAX FLOOR AREA	15,800	42,880	9,525	23,970	42,536	11,447	1,850	12,130	8,828	13,262	5,455	0	
TOTAL ALLOWED AREA	68,233	63,814	14,862	94,338	SEE CALC	44,823	61,705	62,087	57,786	58,533	38,570	20,542	
PROPOSED TOTAL FLOOR AREA	29,100	68,680	9,525	35,750	42,536	24,022	5,500	35,969	19,198	38,204	8,926	10,243	327,653
RATIO (GFA / ATA)	0.4265	1.0762	0.6409	0.3790	0.788	0.5359	0.0899	0.5793	0.3322	0.6527	0.2314	0.4986	

*INFORMATION REFLECTS THE NEW ADDITION

GENERAL INFORMATION

LOCATION
SHAWNEE MISSION EAST HIGH SCHOOL
7500 MISSION ROAD PRAIRIE VILLAGE, KS 66208

OWNER INFORMATION
UNIFIED SCHOOL DISTRICT #512
CONTACT: TYLER CLUBB, DIRECTOR OF FACILITIES
8200 W 71ST STREET
OVERLAND PARK, KS 66208
913-993-6200

JURISDICTION HAVING AUTHORITY
PRAIRIE VILLAGE KANSAS

PROJECT DESCRIPTION
THE PROJECT CONSISTS OF A TWO STORY ADDITION WITH E OCCUPANCY CLASSIFICATIONS AND INTERIOR REMODELING OF SELECT RESTROOMS IN THE EXISTING BUILDING.

SITE DATA (PER PRAIRIE VILLAGE KANSAS MUNICIPAL CODE)

ZONING: R1A
USE: HIGH SCHOOL
NEIGHBORING ZONING: R1A

REQUIRED PARKING CALCS:
NO CHANGE

PROVIDED PARKING:
NO CHANGE

CODE DATA (PER CITY OF PRAIRIE VILLAGE KANSAS ORDINANCES)

APPLICABLE CODES:

2018 INTERNATIONAL BUILDING CODE W/ AMENDMENTS
2018 INTERNATIONAL PLUMBING CODE W/ AMENDMENTS
2018 INTERNATIONAL MECHANICAL CODE W/ AMENDMENTS
2018 INTERNATIONAL ENERGY CONSERVATION CODE W/ AMENDMENTS
2017 NFPA 70 - NATIONAL ELECTRICAL CODE W/ AMENDMENTS
2018 INTERNATIONAL FIRE CODE W/ AMENDMENTS
2018 INTERNATIONAL FUEL GAS CODE W/ AMENDMENTS
2009 ICC A117.1 ADA STANDARDS FOR ACCESSIBLE DESIGN

IBC 2018

CH 3

OCCUPANCY USE AND CLASSIFICATION
EXISTING OCCUPANCY CLASSSIFICATION:

USE TYPES A-ASSEMBLY, E-EDUCATIONAL

MIXED USE, SEPARATED

NEW ADDITION:
PROJECT TYPE: NEW CONSTRUCTION

CONSTRUCTION TYPE: IIB (NEW CONSTRUCTION)

OCCUPANCY GROUP E

CH 5

GENERAL BUILDING HEIGHTS AND AREAS

CONSTRUCTION TYPE IIB

EXISTING BUILDING AREAS & ALLOWED INCREASES: REFER TO TABLE ABOVE

NEW ADDITION:

TABLE 503.4 ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLANE:
ALLOWABLE: 75 FEET FOR TYPE IIB (SPRINKLERED)
PROPOSED: 28 FEET

TABLE 504.4 ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE:
ALLOWABLE: 3 STORIES FOR OCCUPANCY CLASSIFICATION E AND A-2
PROPOSED: 1 STORY

EXISTING BUILDING 5 SQUARE FEET: 34,920
BUILDING ADDITION SQUARE FEET: 7,616
NEW BUILDING 5 SQUARE FEET: 42,536

TABLE 506.2 ALLOWABLE AREA FACTOR IN SQUARE FEET:
OCCUPANCY GROUP E - SPRINKLERED
BASIC ALLOWABLE AREA WITH FRONTAGE INCREASE: 43,500 + (14,500 x 0.08) = 44,660 SF
EXISTING AREA: 2,502 SF
ADDITION AREA: 7,616 SF
TOTAL AREA: 10,118 SF

OCCUPANCY GROUP A2 - SPRINKLERED
BASIC ALLOWABLE AREA WITH FRONTAGE INCREASE: 28,500 + (9,500 x 0.08) = 29,260 SF
EXISTING AREA: 16,412 SF
ADDITION AREA: 0 SF
TOTAL AREA: 16, 412 SF

SECTION 508.4.2: ALLOWABLE AREA FOR SEPARATED, MIXED USE
(10,118 / 44,660) + (16,412 / 29,260) = 0.788

CH 6

TYPE OF CONSTRUCTION

CONSTRUCTION CLASSIFICATION
TYPE IIB - UNPROTECTED, NON-COMBUSTIBLE

TABLE 601 FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)

STRUCTURAL FRAME	
(INCL. COLUMNS, GIRDERS, AND TRUSSES)	0 HOURS
BEARING WALLS	
EXTERIOR	0 HOURS
INTERIOR	0 HOURS
NONBEARING WALLS AND PARTITION	
EXTERIOR	0 HOURS
INTERIOR	0 HOURS
FLOOR CONSTRUCTION	
(INCL. SUPPORTING BEAMS AND JOISTS)	0 HOURS
ROOF CONSTRUCTION	
(INCL. SUPPORTING BEAMS AND JOISTS)	0 HOURS

TABLE 602 FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE

FIRE SEPARATION DISTANCE = X (FEET)

X < 5 = 1
5 < X < 10 = 1
10 < X < 30 = 0
X > 30 = 0

CH 7

FIRE RESISTANCE RATED CONSTRUCTION

STRUCTURAL MEMBERS (IBC SECTION 704) - NONE REQUIRED
EXTERIOR WALLS (IBC SECTION 705) - NONE REQUIRED
FIREWALLS (IBC SECTION 706) - NONE REQUIRED
FIRE BARRIERS (IBC SECTION 707) - NONE REQUIRED
FIRE PARTITIONS (IBC SECTION 708) - NONE REQUIRED
SMOKE BARRIERS (IBC SECTION 709) - NONE REQUIRED
SMOKE PARTITIONS (IBC SECTION 710) - NONE REQUIRED
FLOOR & ROOF ASSEMBLIES (IBC SECTION 711) - NONE REQUIRED
VERTICAL OPENINGS (IBC SECTION 712) - NONE REQUIRED
SHAFT ENCLOSURES (IBC SECTION 713) - NONE REQUIRED
PENETRATIONS (IBC SECTION 714) - NONE REQUIRED
JOINT SYSTEMS (IBC SECTION 715) - NONE REQUIRED
OPENING PROTECTIVES (IBC SECTION 716) - NONE REQUIRED

CH 8

WALLS AND CEILING FINISHES

TABLE 803.13 INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY

E OCCUPANCY (SPRINKLERED)
INTERIOR EXIT STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS: CLASS B
CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS: CLASS C
ROOMS AND ENCLOSED SPACES: CLASS C

CH 9

FIRE PROTECTION SYSTEMS

AUTOMATIC SPRINKLER SYSTEM	(SEE PLANS FOR LOCATIONS)
STANDPIPE SYSTEM	...
PORTABLE FIRE EXTINGUISHERS	...
FIRE ALARM & DETECTION SYSTEMS	...
EMERGENCY ALARM SYSTEMS	...
SMOKE COMPARTMENT SYSTEMS	...
SMOKE AND HEAT VENTS	...
FIRE COMMAND CENTER	...
FIRE DEPARTMENT CONNECTIONS	
EXIT SIGNS	REQUIRED/ PROVIDED
EMERGENCY LIGHTS	REQUIRED/ PROVIDED

CH 10

MEANS OF EGRESS

1004.3 MULTIPLE FUNCTION OCCUPANT LOAD:
WHERE AN AREA UNDER CONSIDERATION CONTAINS MULTIPLE FUNCTIONS HAVING DIFFERENT OCCUPANT LOAD FACTORS, THE DESIGN OCCUPANT LOAD FOR SUCH AREA SHALL BE BASED ON THE FLOOR AREA OF EACH FUNCTION CALCULATED INDEPENDENTLY.

1004.4 MULTIPLE OCCUPANCIES:
WHERE A BUILDING CONTAINS TWO OR MORE OCCUPANCIES, THE MEANS OF EGRESS REQUIREMENTS SHALL APPLY TO EACH PORTION OF THE BUILDING BASED ON THE OCCUPANCY OF THAT SPACE. WHERE TWO OR MORE OCCUPANCIES UTILIZE PORTIONS OF THE SAME MEANS OF EGRESS SYSTEM, THOSE EGRESS COMPONENTS SHALL MEET THE MORE STRINGENT REQUIREMENTS OF ALL OCCUPANCIES THAT ARE SERVED.

DESIGN OCCUPANT LOAD:
TABLE 1004.5 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT: CALCULATED BASED ON AREAS AND OCCUPANT LOAD FACTORS AND ARE INDICATED ON CODE PLAN G1.3 FOR THE NEW ADDITION.

1004.7 OUTDOOR AREAS:
YARDS, PATIOS, OCCUPIED ROOFS, COURTS AND SIMILAR OUTDOOR AREAS ACCESSIBLE AND USEABLE BY THE BUILDING OCCUPANTS SHALL BE PROVIDED WITH MEANS OF EGRESS AS REQUIRED BY THIS CHAPTER. THE OCCUPANT LOAD OF SUCH OUTDOOR AREAS SHALL BE ASSIGNED BY THE BUILDING OFFICIAL IN ACCORDANCE WITH THE ANTICIPATED USE.

1004.9 POSTING OF OCCUPANT LOAD:
EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE, FOR THE INTENDED CONFICGURATIONS. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER'S AUTHORIZED AGENT.

1005.3 REQUIRED CAPACITY BASED ON OCCUPANT LOAD

1005.3.1 STAIRWAYS:
THE CAPACITY IN INCHES, OF MEANS OF EGRESS STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH STAIRWAYS BY A MEANS OF EGRESS CAPACITY FACTOR OF **0.3 INCH** PER OCCUPANT.

1005.3.2 OTHER EGRESS COMPONENTS:
THE CAPACITY, IN INCHES, OF MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH COMPONENT BY A MEANS OF EGRESS CAPACITY FACTOR OF **0.2 INCH** PER OCCUPANT.

1006.2.1 EGRESS BASED UPON OCCUPANT LOAD AND COMMON PATH OF EGRESS TRAVEL DISTANCE:
TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD OR THE COMMON PATH OF EGRESS TRAVEL DISTANCE EXCEEDS THE VALUES LISTED IN TABLE 1006.2.1

TABLE 1006.2.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY
MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE.
A OCCUPANCY - MAXIMUM OCCUPANT LOAD OF SPACE = 49: **75 FEET**
E OCCUPANCY - MAXIMUM OCCUPANT LOAD OF SPACE = 49: **75 FEET**

1006.3.2 EGRESS BASED ON OCCUPANT LOAD:
EACH STORY AND OCCUPIED ROOF SHALL HAVE THE MINIMUM NUMBER OF SEPARATE AND DISTINCT EXITS, OR ACCESS TO EXITS, AS SPECIFIED IN TABLE 1006.3.2.

OCCUPANT LOAD PER STORY: 1-500, MINIMUM NUMBER OF EXISTS OR ACCESS TO EXITS FROM STORY = 2

1006.3.3 SINGLE EXITS:
A SINGLE EXIT OR ACCESS TO A SINGLE EXIT SHALL BE PERMITTED FROM ANY STORY OR OCCUPIED ROOF WHERE ONE OF THE FOLLOWING CONDITIONS EXIST:

ROOMS, AREAS AND SPACES COMPLYING WITH SECTION 1006.2.1 WITH EXITS THAT DISCHARGE DIRECTLY TO THE EXTERIOR AT THE LEVEL OF EXIT DISCHARGE, ARE PERMITTED TO HAVE ONE EXIT OR ACCESS TO A SINGLE EXIT.

1009.3.2 STAIRWAY WIDTH:
STAIRWAYS SHALL HAVE A CLEAR WIDTH OF 48 INCHES MINIMUM BETWEEN HANDRAILS.

1010.1.1 SIZE OF DOORS:
THE REQUIRED CAPACITY OF EACH DOOR OPENING SHALL BE SUFFICIENT FOR THE OCCUPANT LOAD THEREOF AND SHALL PROVIDE A MINIMUM CLEAR OPENING WIDTH OF 32 INCHES.

TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE:
A OCCUPANCY - EXIT ACCESS TRAVEL DISTANCE (WITH SPRINKLER SYSTEM): **250 FEET**
E OCCUPANCY - EXIT ACCESS TRAVEL DISTANCE (WITH SPRINKLER SYSTEM): **250 FEET**

1017.3 MEASUREMENT:
EXIT ACCESS TRAVEL DISTANCE SHALL BE MEASURED FROM THE MOST REMOTE POINT OF EACH ROOM, AREA OR SPACE ALONG THE NATURAL AND UNOBSTRUCTED PATH OF HORIZONTAL AND VERTICAL EGRESS TRAVEL TO THE ENTRANCE TO AN EXIT.

CORRIDORS
1020.2 WIDTH AND CAPACITY:
THE MINIMUM WIDTH SHALL BE NOT LESS THAN THAT SPECIFIED IN TABLE 1020.2

TABLE 1020.2 MINIMUM CORRIDOR WIDTH:
ANY FACILITY NOT LISTED IN THIS TABLE - MINIMUM WIDTH = 44"
AN OCCUPANT LOAD OF LESS THAN 50 - MINIMUM WIDTH = 36"
GROUP E WITH A CORRIDOR HAVING AN OCCUPANT LOAD OF 100 OR MORE - MINIMUM WIDTH = 72"

IPC 2018

PLUMBING FACILITIES PER **IPC TABLE 403.1 MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES** - 2018 INTERNATIONAL PLUMBING CODE
REFER TO TABLE BELOW.

403.1.2 SINGLE-USER TOILET FACILITY AND BATHING ROOM FIXTURES.
THE PLUMBING FIXTURES LOCATED IN SINGLE-USER TOILET FACILITIES AND BATHING ROOMS, INCLUDING FAMILY OR ASSISTED USE TOILET AND BATHING ROOMS THAT ARE REQUIRED BY SECTION 1109.1 OF THE INTERNATIONAL BUILDING CODE, SHALL CONTRIBUTE TOWARD THE TOTAL NUMBER OF REQUIRED PLUMBING FIXTURES FOR A BUILDING OR TENANT SPACE. SINGLE-USER TOILET FACILITIES AND BATHING ROOMS, AND FAMILY OR ASSISTED-USE TOILET ROOMS AND BATHING ROOMS SHALL BE IDENTIFIED FOR USE BY EITHER SEX.

403.1.3 LAVATORY DISTRIBUTION.
WHERE TWO OR MORE TOILET ROOMS ARE PROVIDED FOR EACH SEX, THE REQUIRED NUMBER OF LAVATORIES SHALL BE DISTRIBUTED PROPORTIONATELY TO THE REQUIRED NUMBER OF WATER CLOSETS.

403.2 SEPARATE FACILITIES.
WHERE PLUMBING FIXTURES ARE REQUIRED, SEPARATE FACILITIES SHALL BE PROVIDED FOR EACH SEX.

403.2.1 FAMILY OR ASSISTED-USE TOILET FACILITIES SERVING AS SEPARATE FACILITES.
WHERE A BUILDING OR TENANT SPACE REQUIRES A SEPARATE TOILET FACILITY FOR EACH SEX AND EACH TOILET FACILITY IS REQUIRED TO HAVE ONLY ONE WATER CLOSET, TWO FAMILY OR ASSITED USE TOILET FACILITIES SHALL BE PERMITTED TO SERVE AS THE REQUIRED SEPARATE FACILITIES. FAMILY OR ASSISTED-USE TOILET FACILITIES SHALL NOT BE REQUIRED TO BE IDENTIFIED FOR EXCLUSIVE USE BY EITHER SEX AS REQUIRED BY SECTION 403.4

403.4 SIGNAGE.
REQUIRED PUBLIC FACILITIES SHALL BE PROVIDED WITH SIGNS THAT DESIGNATE THE SEX, AS REQUIRED BY SECTION 403.2. SIGNS SHALL BE READILY VISIBLE AND LOCATED NEAR THE ENTRANCE TO EACH TOILET FACILITY. SIGNS FOR ACCESSIBLE TOILET SHALL COMPLY WITH SECTION 1111 OF THE INTERNATIONAL BUILDING CODE.

404.1 WHERE REQUIRED.
ACCESSIBLE PLUMBING FACILITIES AND FIXTURES SHALL BE PROVIDED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.

421.4 SHOWER COMPARTMENTS.
SHOWER COMPARTMENTS SHALL BE NOT LESS THAN 900 SQUARE INCHES IN INTERIOR CROSSSECTIONAL AREA. SHOWER COMPARTMENTS SHALL BE NOT LESS THAN 30 INCHES IN LEAST DIMENSION AS MEASURED FROM THE FINISHED INTERIOR DIMENSION OF THE COMPARTMENT, EXCLUSIVE OF FIXTURE VALVES, SHOWERHEADS, SOAP DISHES AND SAFETY GRAB BARS OR RAILS. EXCEPT AS REQUIRED IN SECTION 404, THE MINIMUM REQUIRED AREA AND DIMENSION SHALL BE MEASURED FROM THE FINISHED INTERIOR DIMENSION AT A HEIGHT EQUAL TO THE TOP OF THE THRESHOLD AND AT A POINT TANGENT TO ITS CENTERLINE AND SHALL BE CONTINUED TO A HEIGHT NOT LESS THAN 70 INCHES ABOVE THE SHOWER DRAIN OUTLET.

421.4.1 FLOOR AND WALL AREA.
BATHTUB FLOORS, SHOWER FLOORS, WALL AREAS ABOVE BUILT-IN TUBS THAT HAVE INSTALLED SHOWER HEADS AND WALLS IN SHOWER COMPARTMENTS SHALL BE CONSTRUCTED OF SMOOTH, CORROSION-RESISTANT AND NONABSORBENT WATERPROOF MATERIALS. WALL MATERIALS SHALL EXTEND TO A HEIGHT OF NOT LESS THAN 6 FEET ABOVE THE ROOM FLOOR LEVEL, AND NOT LESS THAN 70 INCHES ABOVE THE DRAIN OF THE TUB OR SHOWER. SUCH WALLS SHALL FORM A WATER-TIGHT JOINT WITH EACH OTHER AND WITH EITHER THE TUB OR SHOWER FLOOR.

421.4.2 ACCESS.
THE SHOWER COMPARTMENT ACCESS AND EGRESS OPENING SHALL HAVE A CLEAR AND UNOBSTRUCTED FINISHED WIDTH OF NOT LESS THAN 22 INCHES. SHOWER COMPARTMENTS REQUIRED TO BE DESIGNED IN CONFORMANCE TO ACCESSIBILITY PROVISIONS SHALL COMPLY WITH SECTION 404.1.

PLUMBING FIXTURES					
		WATER CLOSETS	URINALS	LAVATORIES	DRINKING FOUNTAINS
AUDITORIUM (M=1 PER 125, F=1 PER 65)					
466 MALE	REQUIRED	4	-	2	-
	PROVIDED	4	7	6	NO CHANGE
466 FEMALE	REQUIRED	7	-	2	-
	PROVIDED	10	-	10	NO CHANGE
EDUCATIONAL (1 PER 50)					
973 MALE	REQUIRED	19	-	19	-
	PROVIDED	16	18	21	NO CHANGE
973 FEMALE	REQUIRED	19	-	19	-
	PROVIDED	29	-	23	NO CHANGE
FACULTY / STAFF (1 PER 50)					
102 MALE	REQUIRED	2	-	2	-
	PROVIDED	3	3	3	NO CHANGE
102 FEMALE	REQUIRED	2	-	2	-
	PROVIDED	3	-	3	NO CHANGE
GYM / LOCKERS (M=1 PER 125, F=1 PER 65)					
645 MALE	REQUIRED	5	-	3	-
	PROVIDED	9	11	15	NO CHANGE
645 FEMALE	REQUIRED	9	-	3	-
	PROVIDED	18	-	17	NO CHANGE

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS. ANY DISCREPANCY WITH THE EXISTING SITE CONDITIONS AND/OR THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION AND INSTRUCTION.

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DUANE A. CASH LICENSED 7083 1-6-2022 KANSAS ARCHITECT

EAST HIGH SCHOOL REMODEL & ADDITION

7500 MISSION ROAD
PRAIRIE VILLAGE, KS 66208

Project Phase
100% BID PACKAGE

Project Number
20-304
Issue Date
01/06/2022

Revision No.	Description	Date Issued

Area Plan

Sheet Name
CODE INFORMATION

Sheet Number
G1.1

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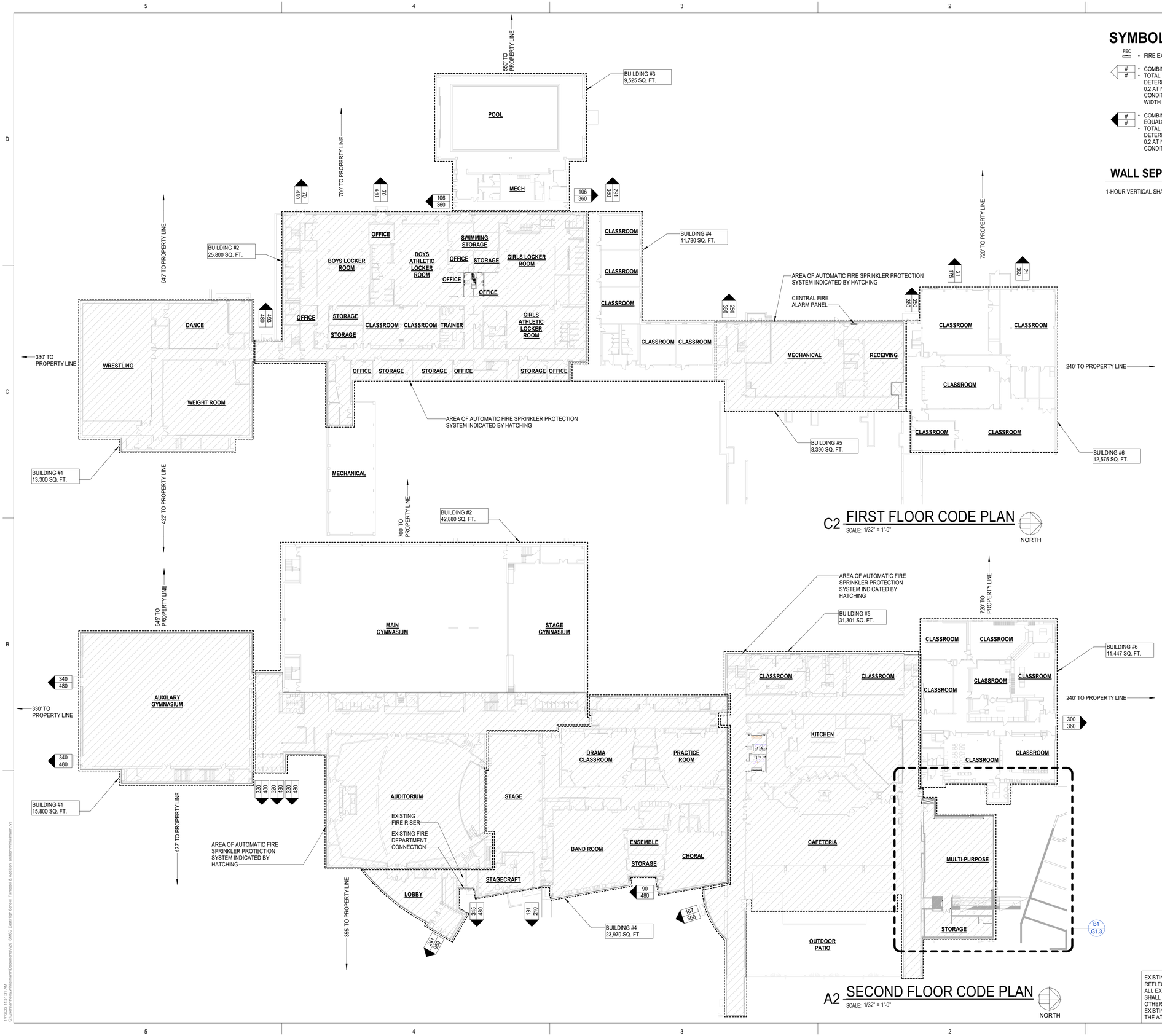
SYMBOL LEGEND

- FEC — FIRE EXTINGUISHER CABINET
- # / # — COMBINED OCCUPANT LOAD AT GIVEN DOOR OR STAIR
  - TOTAL EXIT CAPACITY OF DOOR (THE CAPACITY OF DOORS ARE DETERMINED AS FOLLOWS: CLEAR OPENING WIDTH IN INCHES DIVIDED BY 0.2 AT NON SPRINKLERED CONDITIONS AND 0.15 AT SPRINKLERED CONDITIONS. THE CAPACITY OF STAIRS ARE DETERMINED AS FOLLOWS: WIDTH IN INCHES DIVIDED BY 0.2.)
- # / # — COMBINED OCCUPANT DOOR AT A GIVEN EXIT DOOR. (SOME OF THESE EQUALS TOTAL OCCUPANT LOAD)
  - TOTAL EXIT CAPACITY OF DOOR (THE CAPACITY OF DOORS ARE DETERMINED AS FOLLOWS: CLEAR OPENING WIDTH IN INCHES DIVIDED BY 0.2 AT NON SPRINKLERED CONDITIONS AND 0.15 AT SPRINKLERED CONDITIONS.)

WALL SEPARATION LEGEND

1-HOUR VERTICAL SHAFT — 1-VS



C2 FIRST FLOOR CODE PLAN
SCALE: 1/32" = 1'-0"

NORTH

A2 SECOND FLOOR CODE PLAN
SCALE: 1/32" = 1'-0"

NORTH

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS. ANY DISCREPANCY WITH THE EXISTING SITE CONDITIONS AND/OR THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION AND INSTRUCTION.

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7500 MISSION ROAD
PRAIRIE VILLAGE, KS 66208

Project Phase
100% BID PACKAGE

Project Number
20-304

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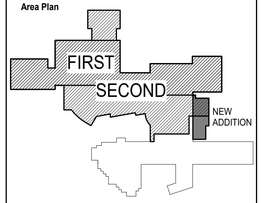
Area Plan



Sheet Name
FIRST & SECOND FLOOR CODE PLANS

Sheet Number
G1.2

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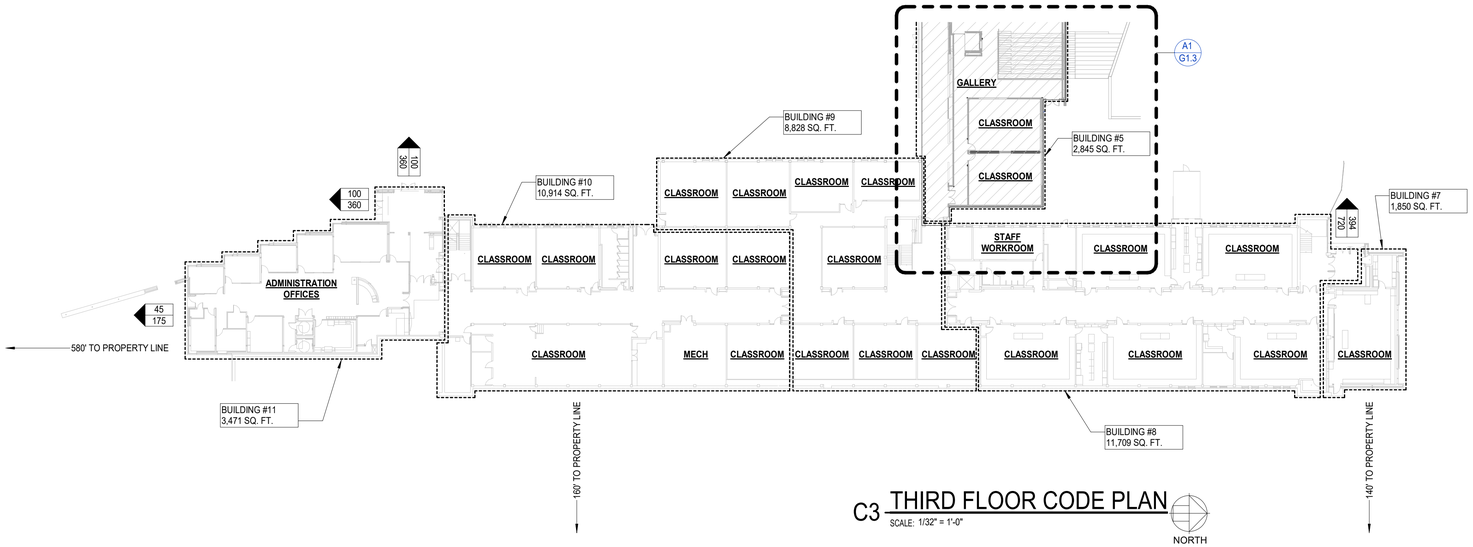
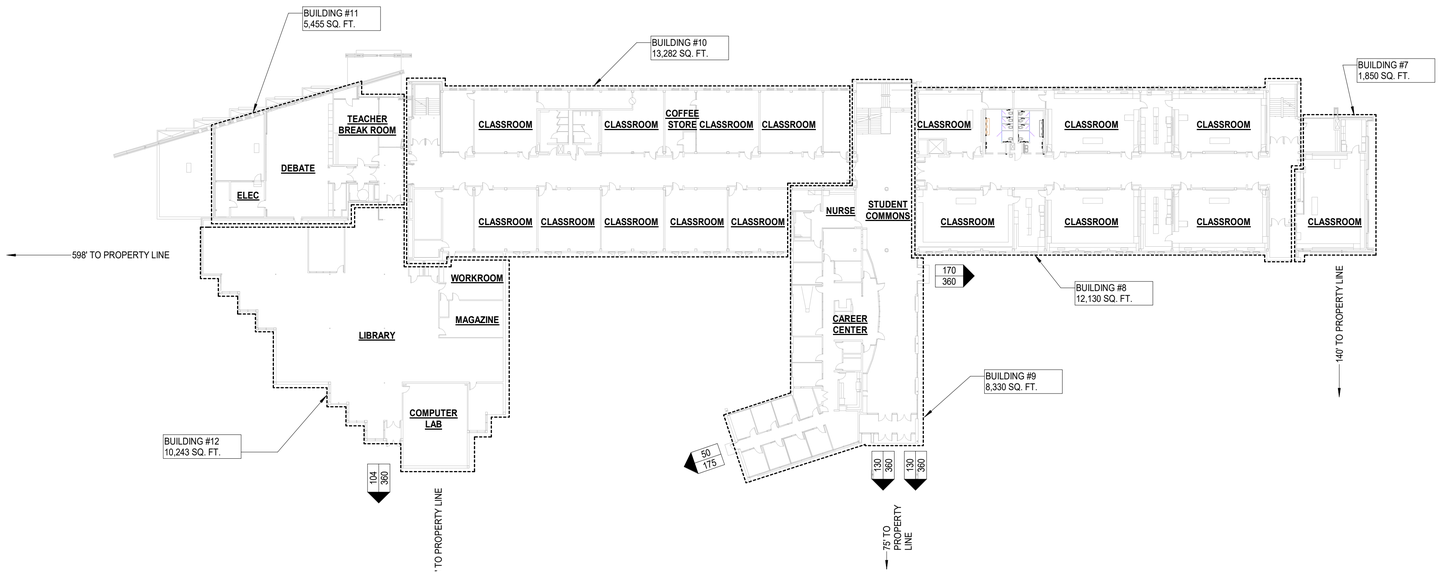


C3 THIRD FLOOR CODE PLAN

SCALE: 1/32" = 1'-0"

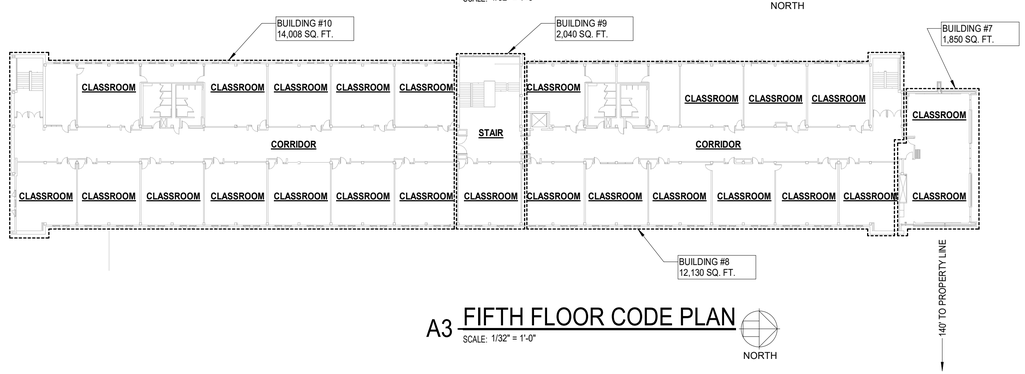
NORTH



B3 FOURTH FLOOR CODE PLAN

SCALE: 1/32" = 1'-0"

NORTH



A3 FIFTH FLOOR CODE PLAN

SCALE: 1/32" = 1'-0"

NORTH

SYMBOL LEGEND

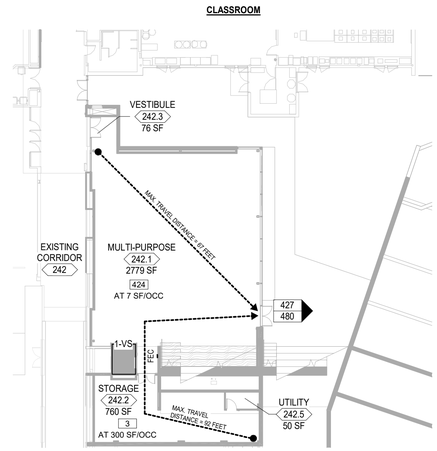
FEC — FIRE EXTINGUISHER CABINET

/ # — COMBINED OCCUPANT LOAD AT GIVEN DOOR OR STAIR
- TOTAL EXIT CAPACITY OF DOOR (THE CAPACITY OF DOORS ARE DETERMINED AS FOLLOWS: CLEAR OPENING WIDTH IN INCHES DIVIDED BY 0.2 AT NON SPRINKLERED CONDITIONS AND 0.15 AT SPRINKLERED CONDITIONS. THE CAPACITY OF STAIRS ARE DETERMINED AS FOLLOWS: WIDTH IN INCHES DIVIDED BY 0.2.)

/ # — COMBINED OCCUPANT DOOR AT A GIVEN EXIT DOOR. (SOME OF THESE EQUALS TOTAL OCCUPANT LOAD)
- TOTAL EXIT CAPACITY OF DOOR (THE CAPACITY OF DOORS ARE DETERMINED AS FOLLOWS: CLEAR OPENING WIDTH IN INCHES DIVIDED BY 0.2 AT NON SPRINKLERED CONDITIONS AND 0.15 AT SPRINKLERED CONDITIONS.)

WALL SEPARATION LEGEND

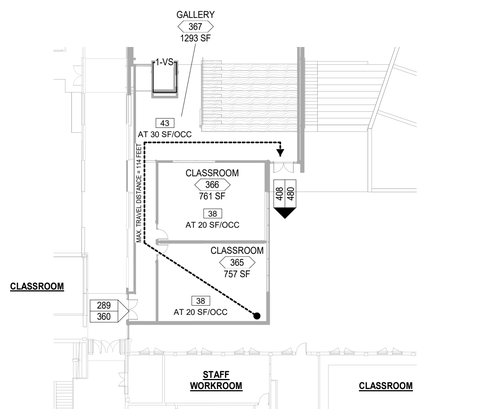
1-HOUR VERTICAL SHAFT — 1-VS



B1 SECOND FLOOR CODE PLAN - NEW ADDITION

SCALE: 3/64" = 1'-0"

NORTH



A1 THIRD FLOOR CODE PLAN - NEW ADDITION

SCALE: 3/64" = 1'-0"

NORTH

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS. ANY DISCREPANCY WITH THE EXISTING SITE CONDITIONS AND/OR THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION AND INSTRUCTION.

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DUANE A. CASH LICENSED 7083 1-6-2022 KANSAS ARCHITECT

EAST HIGH SCHOOL REMODEL & ADDITION

7500 MISSION ROAD
PRAIRIE VILLAGE, KS 66208

Project Phase

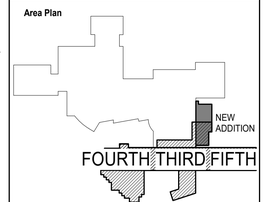
100% BID PACKAGE

Project Number
20-304

Issue Date
01/06/2022

Revision No.	Description	Date Issued

Area Plan



Sheet Name
THIRD, FOURTH & FIFTH FLOOR CODE PLANS

Sheet Number

G1.3

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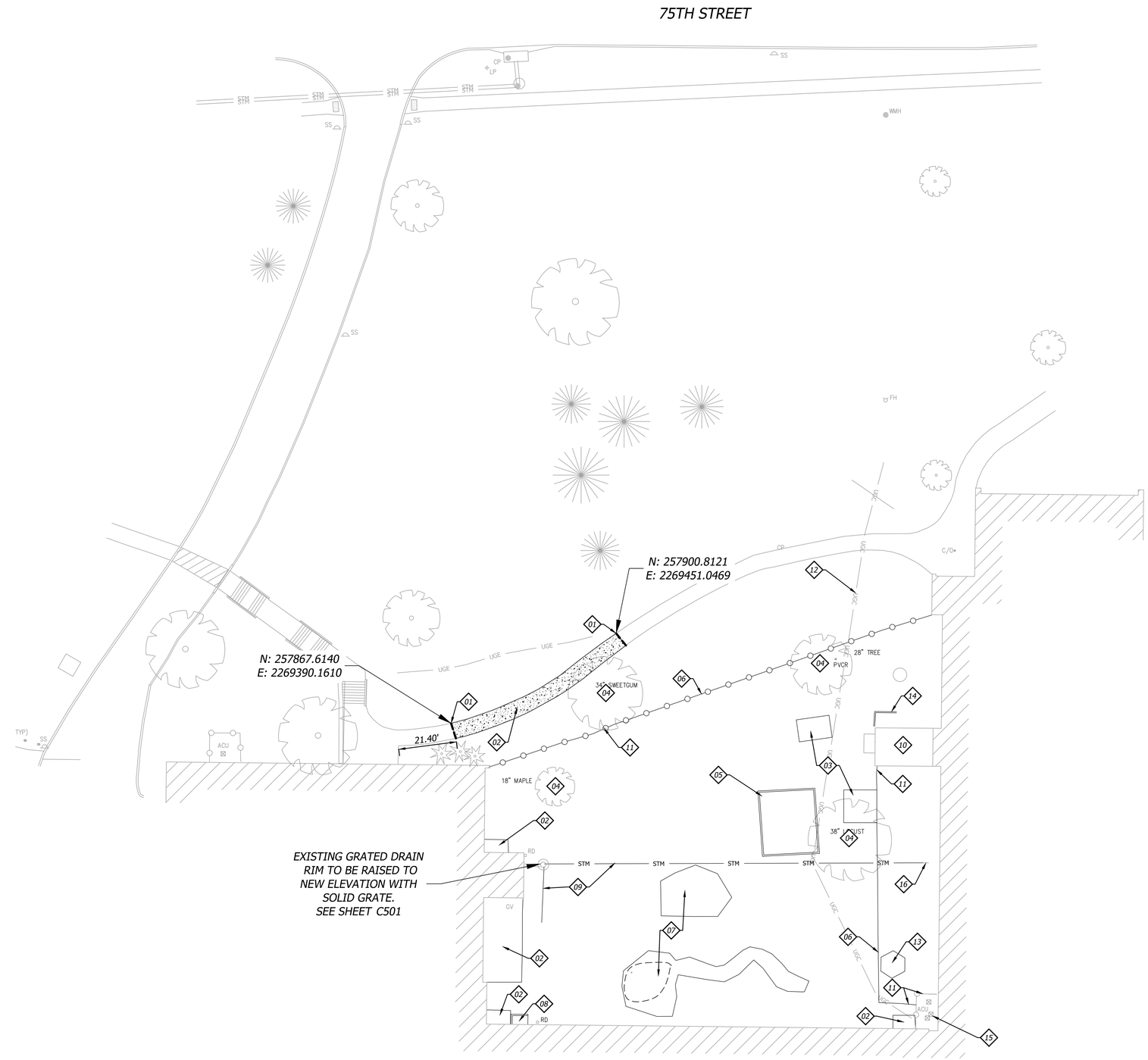
1/7/2022 11:51:37 AM
C:\Users\anthony.wellsteen\Documents\ADS_SMSD East High School_Remodel & Addition_anthonywellsteen.rvt



GENERAL NOTES

1. All materials shall be removed and disposed of off-site. It is the contractors responsibility to meet all applicable laws and regulations pertaining to the disposal of construction/demolition material.
2. All protection fencing shall be installed prior to demolition/construction activity.
3. Contractor shall verify location of all utilities prior to any excavation or construction activity.
4. Any existing utility lines and/or structures called out to be removed or replaced shall be excavated and completely removed and disposed of unless otherwise stated.

00 DEMOLITION NOTES

01 SAW CUT EXISTING CONCRETE SIDEWALK TO A CLEAN EDGE.

02 REMOVE & DISPOSE OF CONCRETE SIDEWALK.

03 REMOVE & DISPOSE OF EXISTING WOOD SHED.

04 REMOVE & DISPOSE OF EXISTING TREE.

05 REMOVE & DISPOSE OF EXISTING LANDSCAPING.

06 REMOVE & DISPOSE OF EXISTING CHAIN LINK FENCE.

07 REMOVE & DISPOSE OF EXISTING WATER FEATURE.

08 REMOVE & DISPOSE OF CONCRETE EGRESS WELL.

09 REMOVE & DISPOSE OF EXISTING STORM PIPE.

10 EXISTING GREENHOUSE TO REMAIN IN PLACE.

11 REMOVE & DISPOSE OF EXISTING FENCE GATE.

12 EXISTING UNDERGROUND COMMUNICATION LINE TO REMAIN.

13 REMOVE & DISPOSE OF EXISTING WOOD CAGE

14 REMOVE & REPLACE WOODEN WALL

15 EXISTING MECHANICAL EQUIPMENT TO BE REORGANIZED; RE: MEP PLANS

16 EXISTING SECTION OF STORM LINE TO REMAIN.

DEMOLITION LEGEND

CONCRETE SIDEWALK TO BE REMOVED

GRAPHIC SCALE
20 0 20

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EAST HIGH SCHOOL REMODEL & ADDITION

7500 MISSION ROAD
PRAIRIE VILLAGE, KS 66208

Project Phase
100% BID PACKAGE

Project Number
20-304

Issue Date
01/06/2022

Revision No.	Description	Date Issued

Area Plan

Sheet Name
DEMOLITION PLAN

Sheet Number
C010

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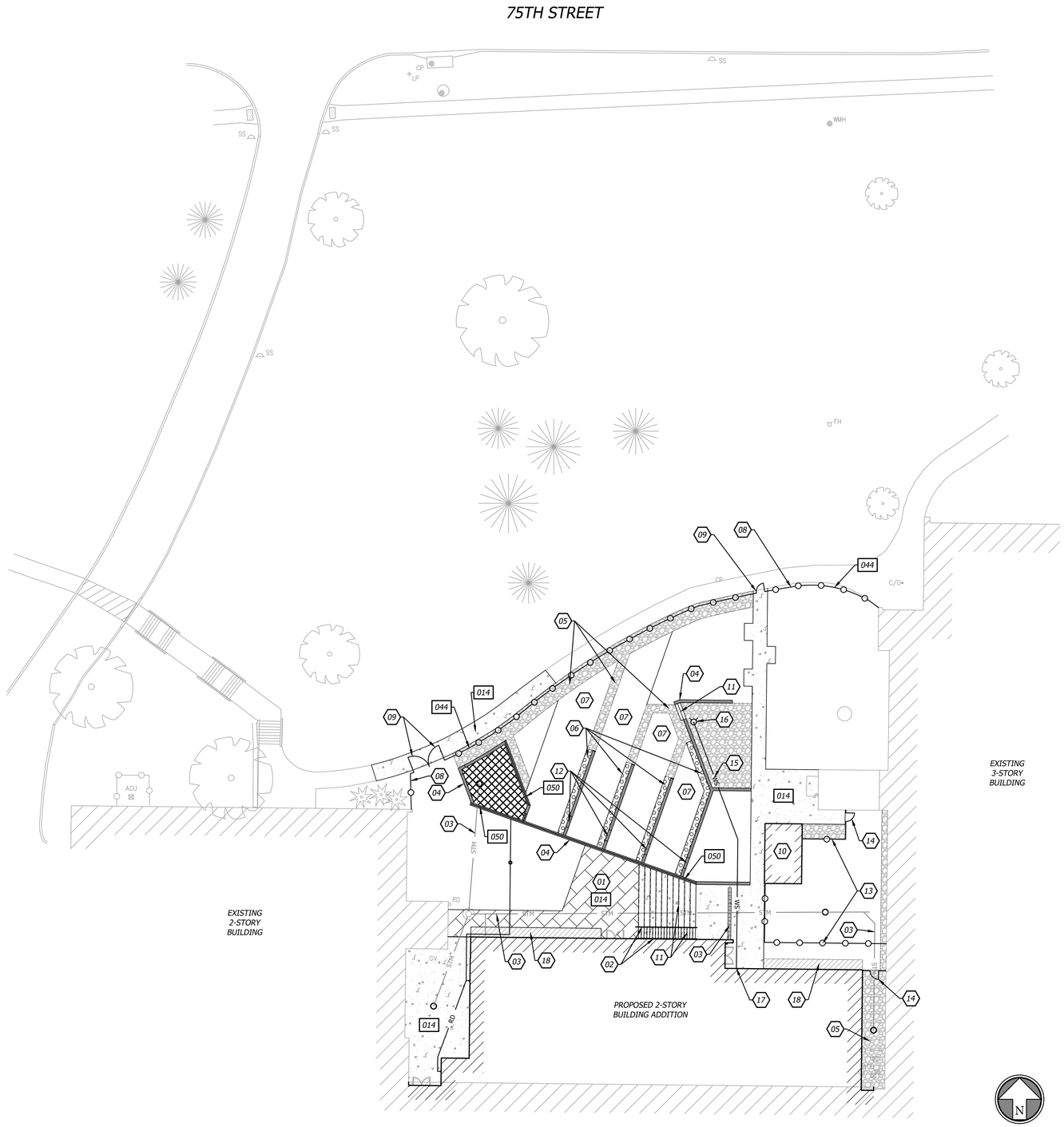

SITE DATA

SITE		
DISTURBED AREA:	*0.60*	*AC*
	25,674	*SF*
IMPERVIOUS AREA:	*.25*	*AC*
BUILDING		
BUILDING ADDITION FOOTPRINT:	*7,200*	*SF*

ZONING

R-1A (SINGLE FAMILY RESIDENTIAL)

00 CONSTRUCTION NOTES

01 *STAINED CONCRETE SIDEWALK (ALTERNATE FOR PERVIOUS PAVERS); RE: LANDSCAPE PLANS*
02 *HANDRAILS; RE: ARCHITECTURAL PLANS*
03 *PROPOSED STORM SYSTEM; REFER TO SHEET C500*
04 *CAST IN PLACE CONCRETE RETAINING WALL (TYP); RE: STRUCTURAL PLANS*
05 *GRAVEL PATH; RE: LANDSCAPE PLANS*
06 *RIPRAP FOR WEIR WALLS; RE: LANDSCAPE PLANS*
07 *NATIVE VEGETATION; RE: LANDSCAPE PLANS*
08 *6' TALL BLACK VINYL COATED CHAIN LINK FENCE*
09 *6' TALL BY 4' WIDE BLACK VINYL COATED CHAIN LINK GATE*
10 *PROPOSED STORAGE SHED; RE: ARCHITECTURAL PLANS*
11 *CONCRETE STAIRS; RE: STRUCTURAL PLANS*
12 *CONCRETE WEIR; RE: STRUCTURAL PLANS*
13 *4' TALL CHAIN LINK FENCE*
14 *4' TALL BY 4' WIDE CHAIN LINK FENCE GATE*
15 *INSTALL 3/4" PVC WATER LINE WITH MINIMUM DEPTH OF COVER 42".*
16 *INSTALL YARD HYDRANT; RE: LANDSCAPE PLANS.*
17 *CONNECT TO BUILDING PLUMBING; RE: PLUMBING PLANS*
18 *LANDSCAPE MULCH; RE: LANDSCAPE PLANS*

000 DETAILS

SEE CONSTRUCTION DETAILS - SHEETS C600

014 *CONCRETE SIDEWALK*
044 *CHAIN LINK FENCE*
050 *SIDE-MOUNTED GUARDRAIL*

SITE LEGEND

- *PROPOSED BUILDING*
- *EXISTING BUILDING*
- *CONCRETE SIDEWALK*
- *RETAINING WALL*
- *EXTENDED WET DETENTION POND*
- *STAMPED CONCRETE*
- *GRAVEL PATH*
- *RIPRAP*

N

GRAPHIC SCALE
20 0 20

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EAST HIGH SCHOOL REMODEL & ADDITION

7500 MISSION ROAD
PRAIRIE VILLAGE, KS 66208

Project Phase
100% BID PACKAGE

Project Number
20-304

Issue Date
01/06/2022

Revision No.	Description	Date Issued

Area Plan

Sheet Name
SITE PLAN

Sheet Number
C100

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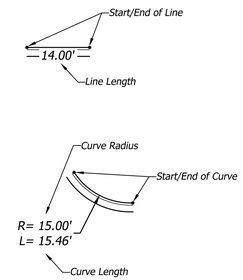
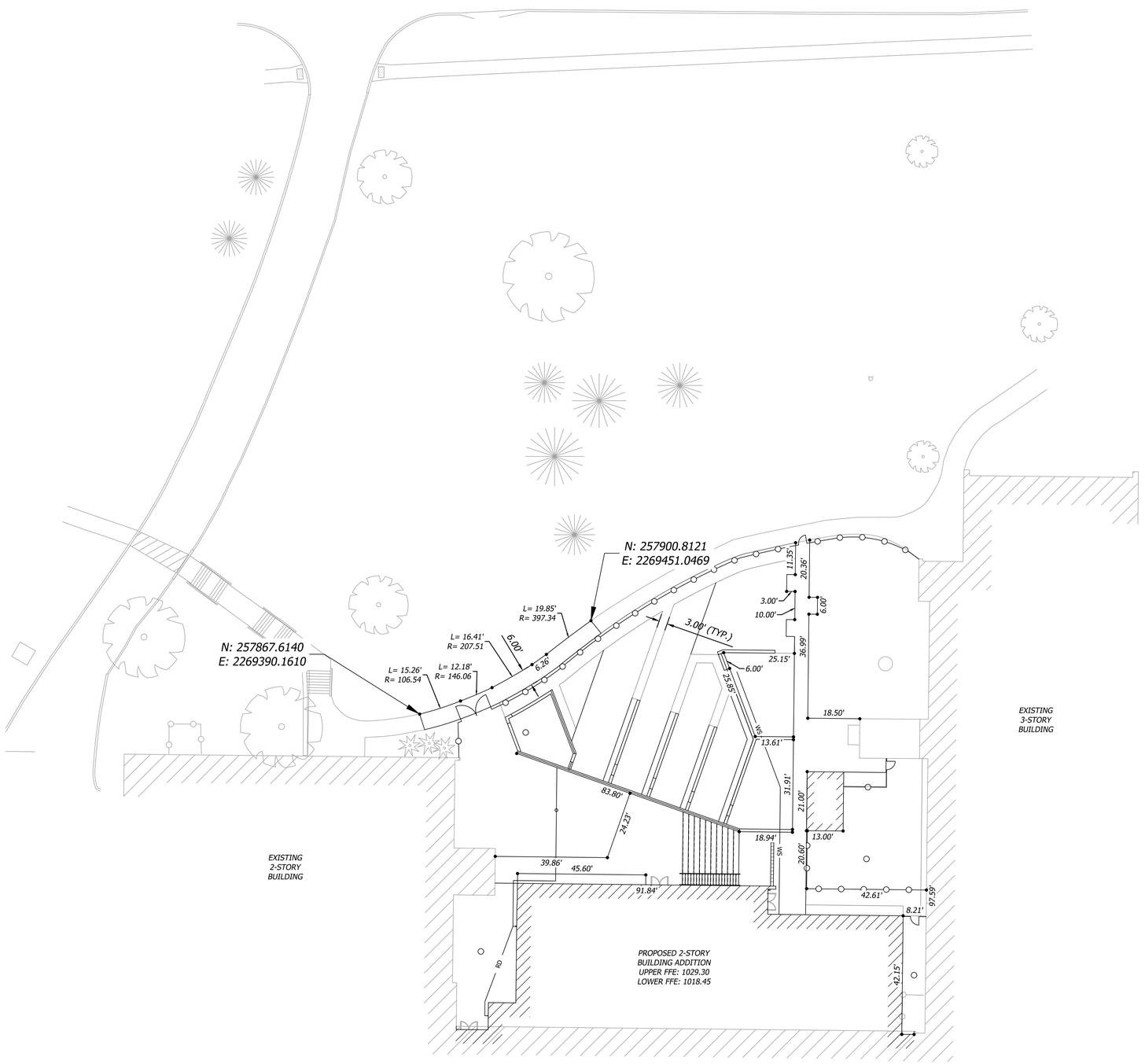
DIMENSION NOTES

1. *ALL DIMENSIONS ARE TO/ALONG BACK OF CURB UNLESS OTHERWISE NOTED*
2. *ALL DIMENSIONS ARE TO BOTTOM OF WALL UNLESS OTHERWISE NOTED*

DIMENSION LEGEND





N

GRAPHIC SCALE
20 0 20

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01/06/2022

Revision No.	Description	Date Issued

Area Plan

Sheet Name
DIMENSION PLAN

Sheet Number
C101

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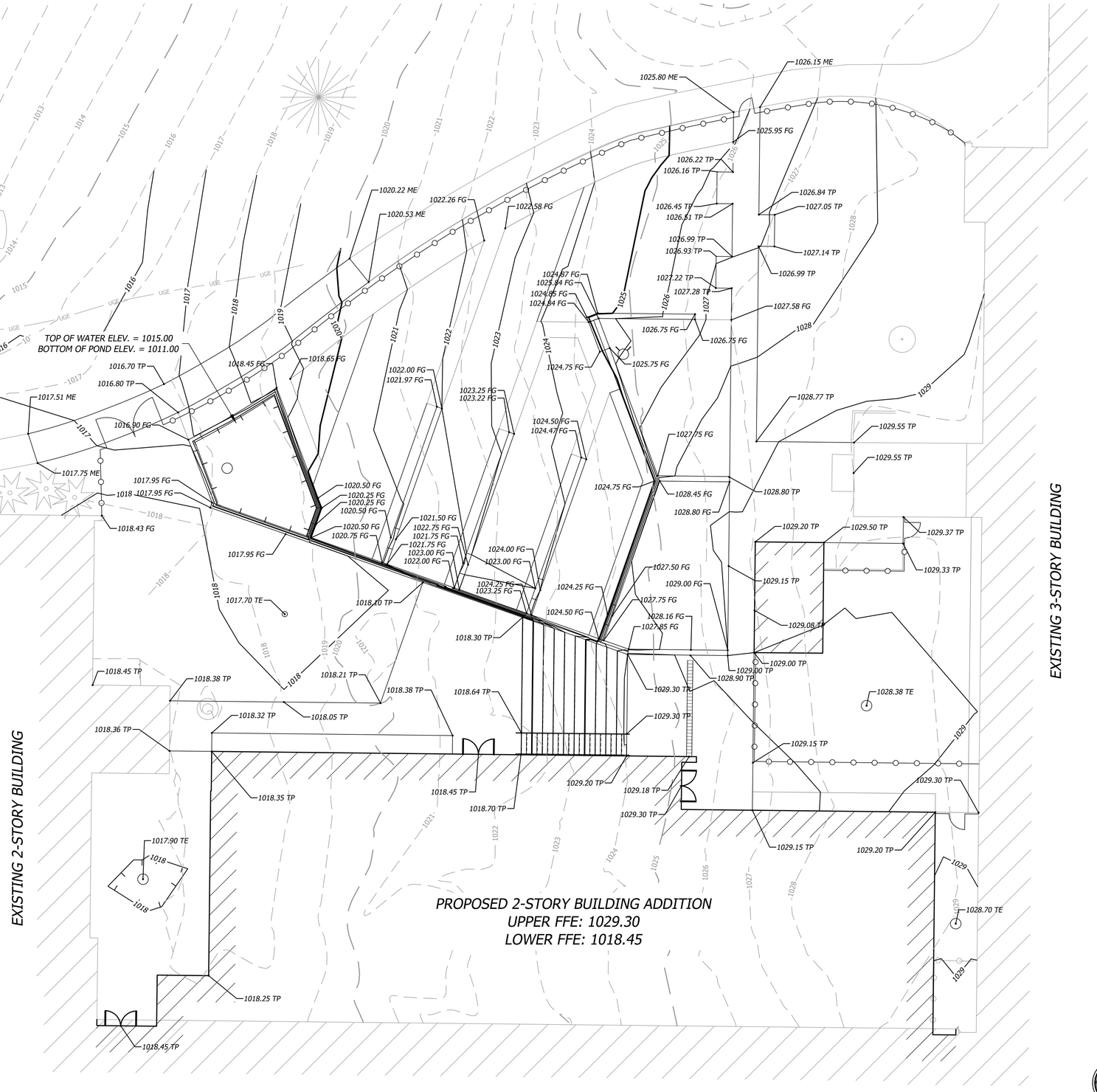

GRADING NOTES

1. Contractor shall obtain a copy of the Geotechnical Services Report for the project and be familiar with the existing conditions and recommendations contained in the report if such a report has been prepared.
2. Contractor is responsible for any over excavation of existing unsuitable soils will be required under building and pavement areas. Contractor shall perform over excavation of unsuitable soils as a part of this work.
3. Contractor shall obtain soils suitable as structural fill from off-site sources. All borrow materials must be tested and approved by the Geotechnical Engineer prior to importing the soils to the project site.
4. Contractor shall operate under the terms and permits included in the Stormwater Pollution Prevention Plan (SWPPP) prepared for this project and permitted through the State of Kansas. Contractor shall employ a qualified person to conduct regular inspections of the site erosion control measures and document such inspections in the SWPPP document maintained by the Contractor.
5. All topsoil, vegetation, root structures, and deleterious materials shall be stripped from the ground surface prior to the placement of embankments. Contractor shall obtain the on-site geotechnical representative's acceptance of the existing ground surface materials and the proposed fill material prior to the placement of fill.
6. All proposed contour lines and spot elevations shown are finish ground elevations. Contractor shall account for pavement depths, building pads, topsoil, etc when grading the site.
7. All disturbed areas that are not to be paved (green spaces) shall be finish graded with a minimum of six inches of topsoil.
8. All excavation and embankments shall comply with the recommendations provided by the geotechnical engineer.
9. Prior to placing any concrete or asphalt pavement the contractor shall perform a proof roll of the pavement sub-grade with a fully loaded tandem axle dump truck. The proof roll shall be conducted in the presence of the on-site geotechnical representative. Areas that display rutting or pumping that are unsatisfactory to the geotechnical representative shall be re-worked and a follow-up proof roll shall be conducted prior to acceptance of the sub-grade for paving. The contractor may, at its own expense, stabilize the sub-grade using Class C fly ash or quicklime, as approved by the geotechnical engineer.
10. Finished grades shall not be steeper than 3:1.
11. All grading work shall be considered unclassified. No additional payments shall be made for rock excavation. Contractor shall satisfy himself as to any rock excavation required to accomplish the improvements shown hereon.
12. A 2.0% maximum cross slope shall be maintained on all pedestrian sidewalks and paths.
13. All elevations at retaining walls are finished grade at that location. For top of wall elevations please refer to the Structural Plans.

FLOOD STATEMENT

The subject property lies within Flood Zone " X " (unshaded) (Areas determined to be outside the 0.2% annual chance floodplain.), as shown on the Johnson County, Kansas and Incorporated Areas Flood Insurance Rate Map (F.I.R.M.).

Map Number: 20091C0039G
Panel No: 39 of 161
Map Revised Date: August 3, 2009

NOTE: This statement is provided for informational purposes only and shall in no way constitute a basis for a flood certificate. No field work was performed to establish the boundaries of this zone. The information was derived by scaling the subject property on the above referenced map.

BENCHMARKS (DATUM: NAVD88)

JOHNSON COUNTY VERTICAL CONTROL POINT BENCHMARK
BENCHMARK NUMBER: 873
ELEVATION= 998.95

"+" CUT IN SW COR. CURB INLET ON S. SIDE W. 75TH STREET.

NORTHING: 258111.8814
EASTING: 2269409.9982

GRADING LEGEND

- 980 — FINISH GRADE MAJOR CONTOURS
- 982 — FINISH GRADE MINOR CONTOURS
- 980 — EXISTING GRADE MAJOR CONTOURS
- 982 — EXISTING GRADE MINOR CONTOURS
- RETAINING WALL

DETAILED GRADING LEGEND

0000.00 FG	FINISHED GRADE ELEVATION
0000.00 TP	TOP OF PAVEMENT ELEVATION
0000.00 ME	MATCH EXISTING GRADE
0000.00 TE	TOP ELEVATION OF STRUCTURE

GRAPHIC SCALE
10 0 10

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Project Phase
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20-304

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Revision No.	Description	Date Issued

Area Plan

Sheet Name
GRADING PLAN

Sheet Number
C200

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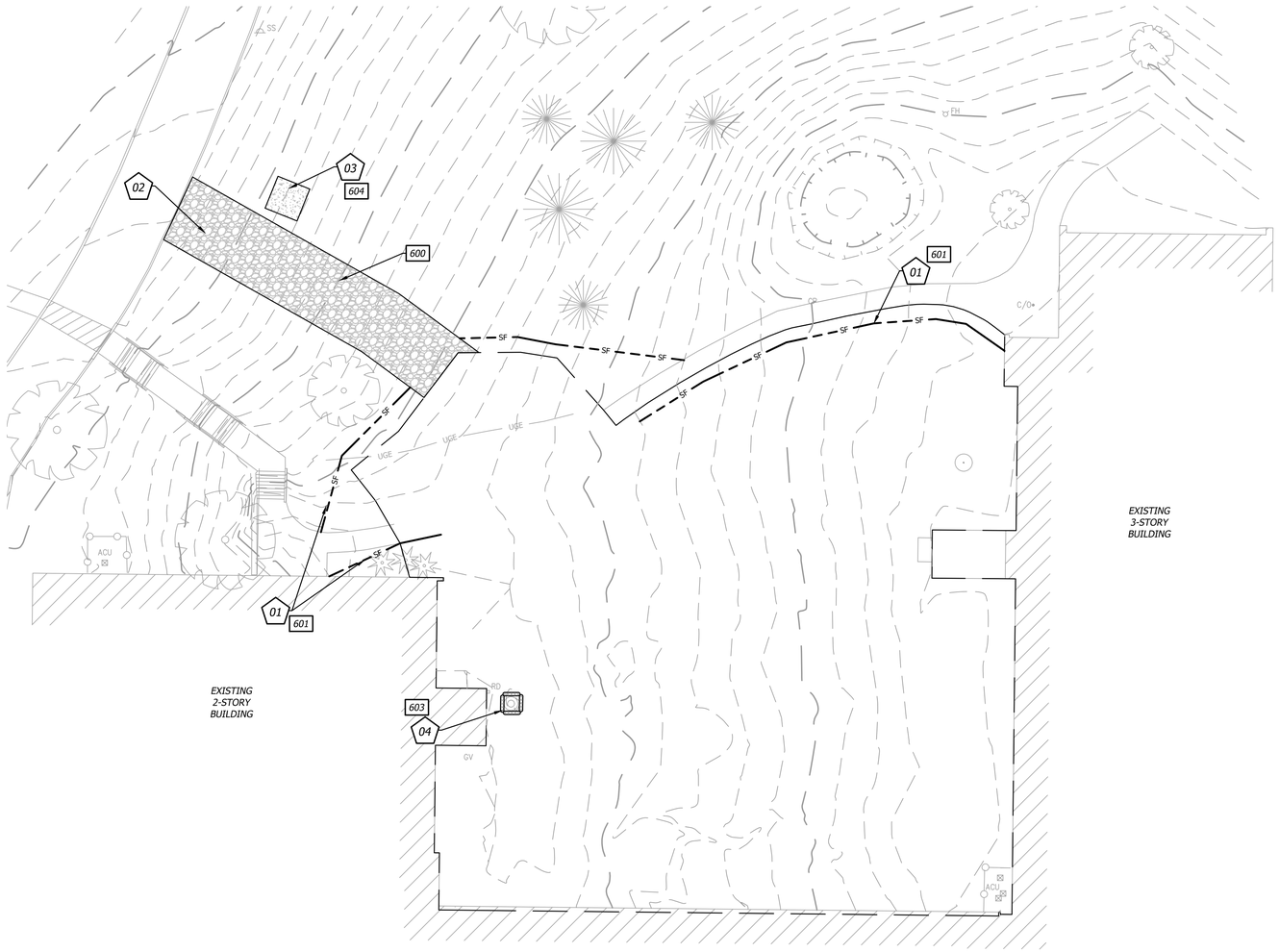

EROSION AND SEDIMENT CONTROL GENERAL NOTES

1. Prior to Land Disturbance activities, the contractor shall:
   - Delineate the outer limits of any natural stream corridor designated with construction fencing.
   - Install perimeter controls and request the inspection of the pre-construction erosion and sediment control measures designated on the approved erosion and sediment control plan. Land disturbance work shall not proceed until there is a satisfactory inspection.
   - Identify the limits of construction on the ground with easily recognizable indications such as construction staking, construction fencing, and placement of physical barriers or other means acceptable to the City inspector and in conformance with the erosion and sediment control plan.

2. The contractor shall comply with all requirements of the Storm Water Pollution Prevention Plan, including but not limited to:
   - The contractor shall seed, mulch, or otherwise stabilize any disturbed area where the land disturbance activity has ceased for more than 14 days.
   - The contractor shall perform inspections of erosion and sediment control measures at the following minimum intervals:
     - o During active construction phases - at least once per week
     - o During periods of inactivity - at least once per 14 days
     - o After each rainfall event of ½ inch or more - within 24 hours of the rain event
   - The contractor shall maintain an inspection log including the inspector's name, date of inspection, observations as to the effectiveness of the erosion and sediment control measures, actions necessary to correct deficiencies, when the deficiencies were corrected, and the signature of the person performing the inspection. The inspection log shall be available for review by the regulatory authority.
   - The contractor shall have the erosion and sediment control plan routinely updated to show all changes and amendments to the plan. A copy of the erosion and sediment control plan shall be kept on site and made available for review by the regulatory authority.

3. Unless otherwise noted in the plans, all seeding must conform to Division II-Construction and Materials Specification-Section 2150 published by the Kansas City Metropolitan Chapter of the American Public Works Association dated May 21, 2008. Permanent seeding shall be installed after completion of final grading except when seeding will occur outside of the acceptable seeding season as specified in Section 2150. When temporary seeding is installed, permanent seeding shall be installed at the next seeding season. Temporary seeding shall not be used as a stabilization measure for a period exceeding 12 months. The Permit will not be closed until permanent seeding has been established to a minimum of 70% density over the entire disturbed area.

4. The contractor shall maintain installed erosion and sediment control devices in a manner that preserves their effectiveness for preventing sediment from leaving the site or entering a sensitive area such as a natural stream corridor, areas of the site intended to be left undisturbed, a storm sewer, or an on-site drainage channel.

5. The contractor is responsible for providing erosion and sediment control for the duration of a project. If the City determines that the BMPs in place do not provide adequate erosion and sediment control at any time during the project, the contractor shall install additional or alternate measures that provide effective control.

6. Concrete wash or rinse water from concrete mixing equipment, tools and/or ready-mix trucks, tools, etc. may not be discharged into or be allowed to run directly into any existing water body or storm inlet. One or more locations for concrete wash out will be designated on site, such that discharges during concrete washout will be contained in a small area where waste concrete can solidify in place.

7. Chemicals or materials capable of causing pollution may only be stored onsite in their original container. Materials stored outside must be in closed and sealed water-proof containers and located outside of drainage ways or areas subject to flooding. Locks and other means to prevent or reduce vandalism shall be used. Spills will be reported as required by law and immediate actions taken to contain them.

8. Silt fences and erosion control BMPs which are shown along the back of curb must be installed within two weeks of curb backfill and prior to placement of base asphalt. Exact locations of these erosion control methods may be field adjusted to minimize conflicts with utility construction; however, anticipated disturbance by utility construction shall not delay installation.

9. Interior Silt Fence as necessary during construction. Portions may be limited as vegetation is established and hardscape is installed. Entire length may be installed at the contractor's option to aid in stabilizing slopes.

10. Private Erosion & Sediment Control inspections are required in accordance with NPDES schedule and requirements. After inspections, provide the City of Prairie Village with reports and documentation.

EROSION & SEDIMENT CONTROL STAGING CHART

Phase	Project Stage	BMP Plan Ref. No.	BMP Description	Remove After Stage:	Notes:
Phase I (PRE–CON)	A – Place BMP's Prior to Land Disturbance	01	Perimeter Silt Fence	C	Place as shown on plan
		02	Construction Entrance & Staging Area	C	Place as shown on plan
		03	Concrete Wash–Out	C	Place as shown on plan
		04	Existing Inlet Protection	C	Place as shown on plan
Phase II (MID–CON)	B – After Utility Storm Sewer Construction	05	Storm Inlet Protection	C	Place as shown on plan
Phase III (POST–CON)	C – Final Grading, Paving & Landscaping	06	Final Seeding, Sod, and Landscaping	N/A	Silt fencing & inlet protect may be removed once seed & sodded areas are established on 80% of site.

000 DETAILS

- SEE EROSION CONTROL DETAIL SHEET FOR THE FOLLOWING

600 TEMPORARY CONSTRUCTION ENTRANCE
601 FILTER FABRIC SILT FENCE
603 STORM INLET PROTECTION
604 CONCRETE WASH-OUT

EROSION CONTROL LEGEND

- DISTURBED AREA (0.60 AC)
- SF — SILT/SEDIMENT FENCE
- INLET PROTECTION FILTER BAGS
- CONSTRUCTION ENTRANCE
- CONCRETE CLEANOUT

N

GRAPHIC SCALE
20 0 20

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ERIC BYRD LICENSED 22713 01/06/2022 KANSAS PROFESSIONAL ENGINEER

EAST HIGH SCHOOL REMODEL & ADDITION

7500 MISSION ROAD
PRAIRIE VILLAGE, KS 66208

Project Phase
100% BID PACKAGE

Project Number
20-304

Issue Date
01/06/2022

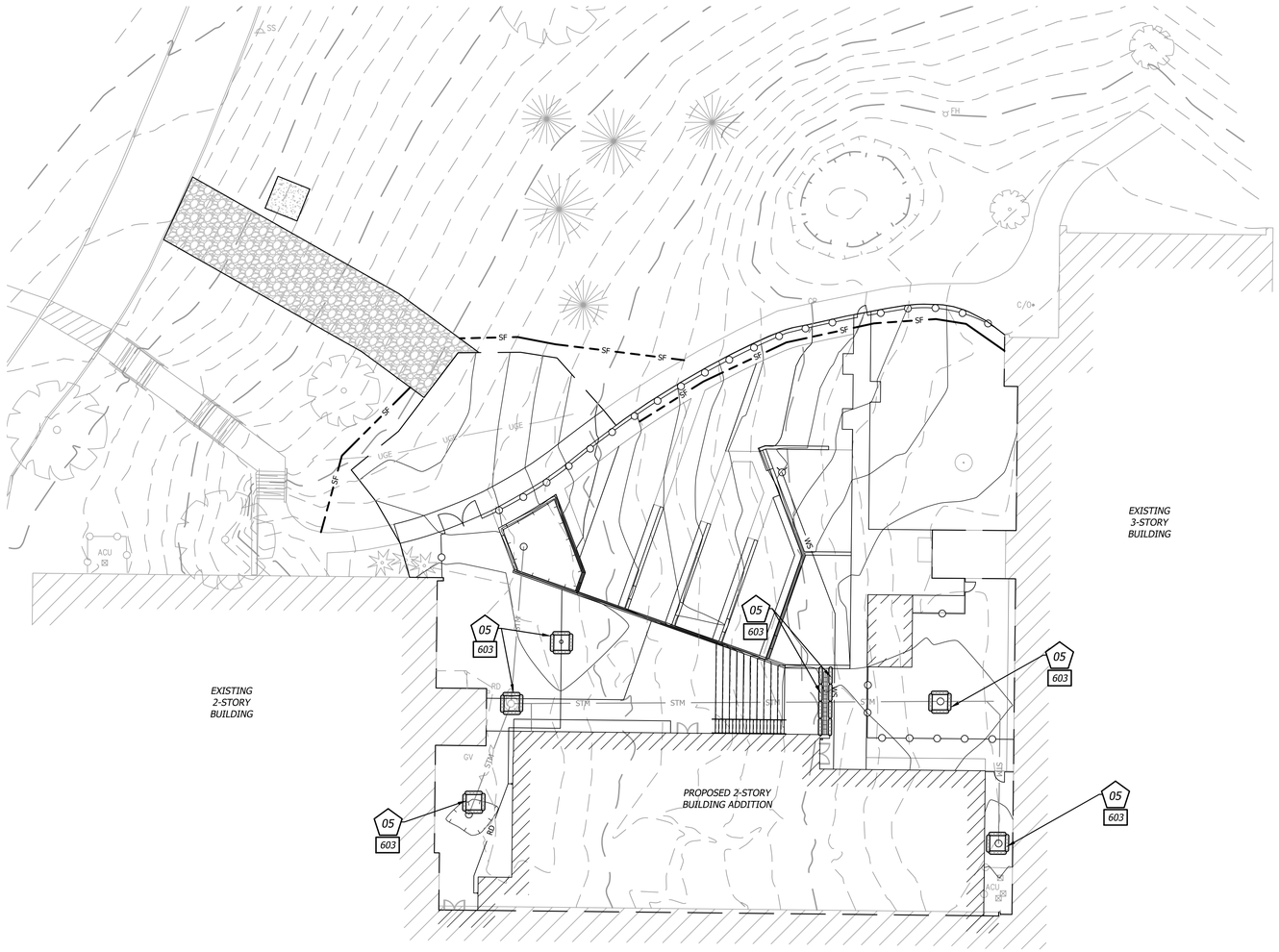
Revision No.	Description	Date Issued

Area Plan

Sheet Name
EROSION CONTROL
PRE-CONSTRUCTION

Sheet Number
C300

in • cite *v.* to provoke thought



EROSION & SEDIMENT CONTROL STAGING CHART

Phase	Project Stage	BMP Plan Ref. No.	BMP Description	Remove After Stage:	Notes:
Phase I (PRE–CON)	A – Place BMP's Prior to Land Disturbance	01	Perimeter Silt Fence	C	Place as shown on plan
		02	Construction Entrance & Staging Area	C	Place as shown on plan
		03	Concrete Wash–Out	C	Place as shown on plan
		04	Existing Inlet Protection	C	Place as shown on plan
Phase II (MID–CON)	B – After Utility Storm Sewer Construction	05	Storm Inlet Protection	C	Place as shown on plan
Phase III (POST–CON)	C – Final Grading, Paving & Landscaping	06	Final Seeding, Sod, and Landscaping	N/A	Silt fencing & inlet protect may be removed once seed & sodded areas are established on 80% of site.

EROSION CONTROL LEGEND

- DISTURBED AREA (0.60 AC)
- SF — SILT/SEDIMENT FENCE
- INLET PROTECTION FILTER BAGS
- CONSTRUCTION ENTRANCE
- CONCRETE CLEANOUT

000 DETAILS

- SEE EROSION CONTROL DETAIL SHEET FOR THE FOLLOWING

600 TEMPORARY CONSTRUCTION ENTRANCE
601 FILTER FABRIC SILT FENCE
603 STORM INLET PROTECTION
604 CONCRETE WASH-OUT

N

GRAPHIC SCALE
20 0 20

incite Design Studio
architects building relationships

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7500 MISSION ROAD
PRAIRIE VILLAGE, KS 66208

Project Phase
100% BID PACKAGE

Project Number
20-304

Issue Date
01/06/2022

Revision No.	Description	Date Issued

Area Plan

Sheet Name
EROSION CONTROL
MID-CONSTRUCTION

Sheet Number
C301

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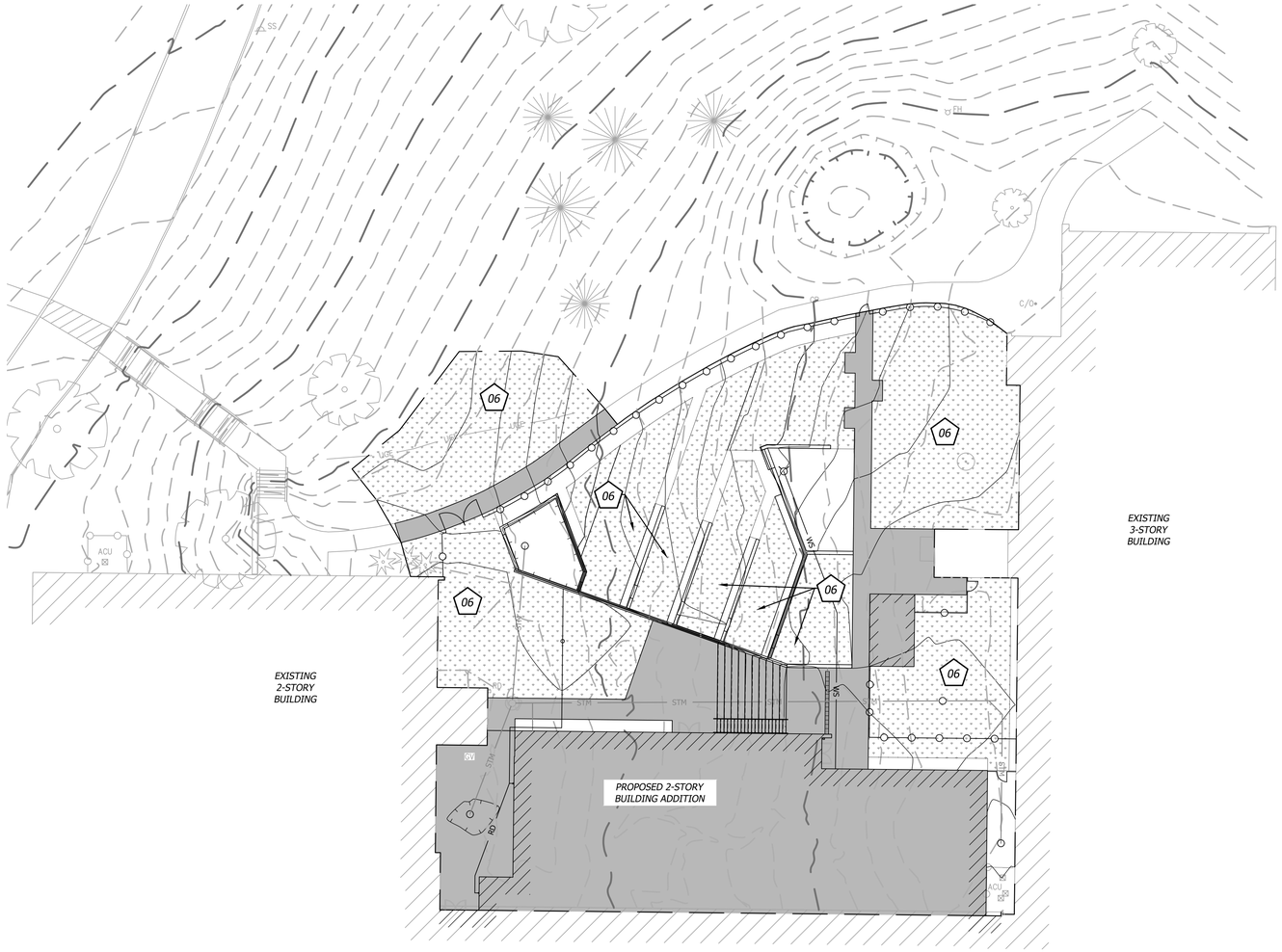

EROSION & SEDIMENT CONTROL STAGING CHART

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		03	Concrete Wash–Out	C	Place as shown on plan
		04	Existing Inlet Protection	C	Place as shown on plan
Phase II (MID–CON)	B – After Utility Storm Sewer Construction	05	Storm Inlet Protection	C	Place as shown on plan
Phase III (POST–CON)	C – Final Grading, Paving & Landscaping	06	Final Seeding, Sod, and Landscaping	N/A	Silt fencing & inlet protect may be removed once seed & sodded areas are established on 80% of site.

EROSION CONTROL LEGEND

- DISTURBED AREA (0.60 AC)
- FINAL SEEDING (SOD &/OR LANDSCAPING)
- IMPERVIOUS AREA (0.25 AC)

000 DETAILS

- *SEE EROSION CONTROL DETAIL SHEET FOR THE FOLLOWING*

600 TEMPORARY CONSTRUCTION ENTRANCE
601 FILTER FABRIC SILT FENCE
603 STORM INLET PROTECTION
604 CONCRETE WASH-OUT

N

GRAPHIC SCALE
20 0 20

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EAST HIGH SCHOOL REMODEL & ADDITION

7500 MISSION ROAD
PRAIRIE VILLAGE, KS 66208

Project Phase
100% BID PACKAGE

Project Number
20-304

Issue Date
01/06/2022

Revision No.	Description	Date Issued

Area Plan

Sheet Name
EROSION CONTROL
POST-CONSTRUCTION

Sheet Number
C302

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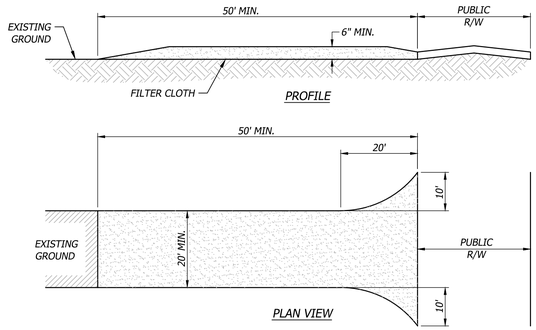
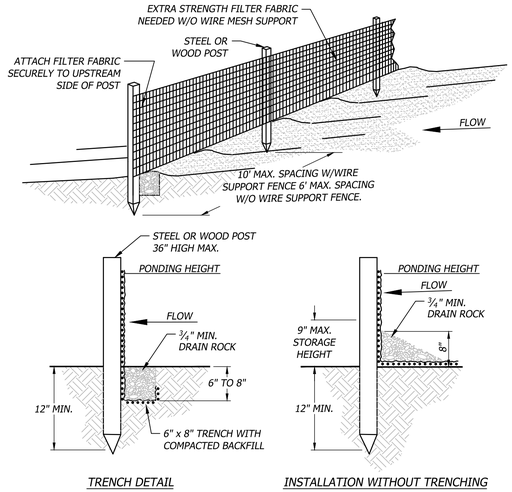


CONSTRUCTION SPECIFICATIONS:

1. *STONE SIZE - USE (2) INCH STONE, OR RECLAIMED OR RECYCLED EQUIVALENT.*
2. *LENGTH - AS REQUIRED, BUT NOT LESS THAN (50) FEET.*
3. *THICKNESS - NOT LESS THAN SIX (6) INCHES.*
4. *WIDTH - TWENTY (20) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.*
5. *FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.*
6. *SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 3:1 SLOPES WILL BE PERMITTED.*
7. *MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.*
8. *WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.*
9. *PERIODIC INSPECTION AS NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.*

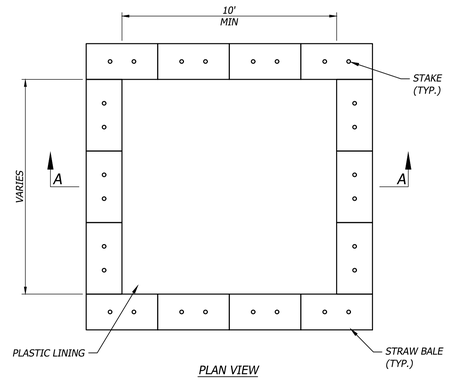
600 Temporary Construction Entrance
Not to Scale

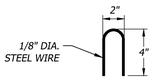


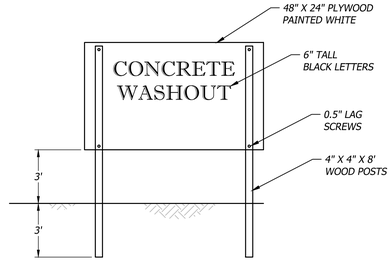
NOTES:

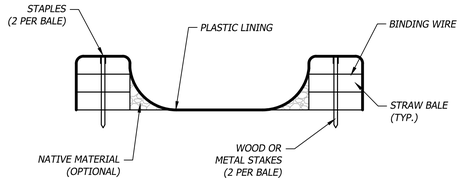
1. *MUST BE INSTALLED PROPERLY TO AVOID NOTICE OF VIOLATION.*
2. *SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE POUNDING EFFICIENCY.*
3. *INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" MAXIMUM RECOMMENDED STORAGE HEIGHT.*
4. *REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE TO SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.*

601 Filter Fabric Silt Fence
Not to Scale





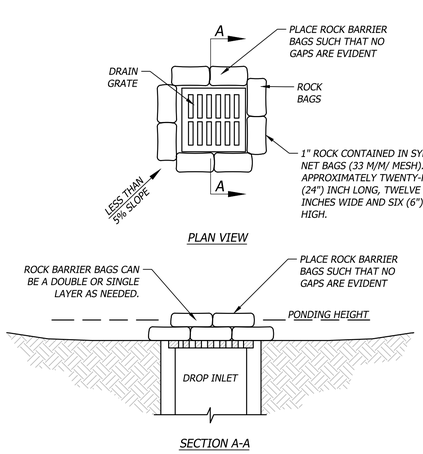




NOTES:

1. *ACTUAL LAYOUT DETERMINED IN FIELD.*
2. *THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY*

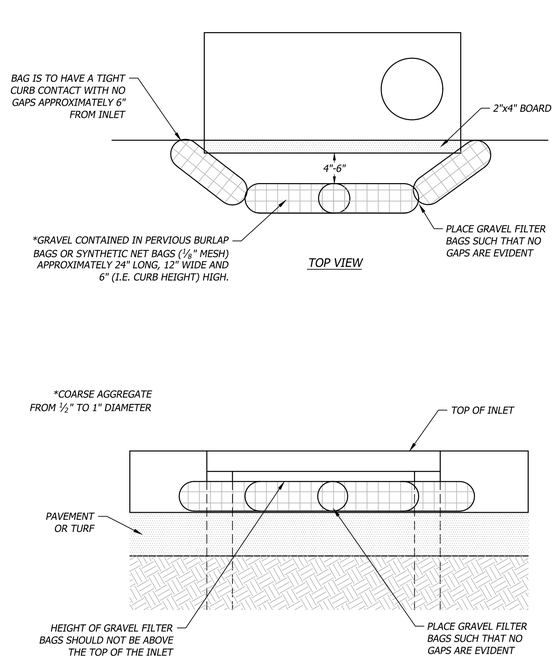
604 Concrete Washout
Not to Scale



ROCK BAG INLET PROTECTION

CATCH BASIN

1. *PLACE CURB TYPE ROCK BAG BARRIER ON GENTLY SLOPING STREET, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.*
2. *BAGS OF WOVEN GEOTEXTILE FABRIC, FILLED WITH GRAVEL MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.*
3. *LEAVE ONE SANDBAG GAP IN THE TOP ROW ON THE SIDE AWAY FROM FLOW, TO PROVIDE A SPILLWAY; OR IN THE CENTER IF PONDING IS NEEDED ON BOTH SIDES.*
4. *INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT, SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY*



603 Gravel Filter Bag Curb Inlet Sediment Filter
Not to Scale

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Revision No.	Description	Date Issued

Area Plan

Sheet Name
EROSION CONTROL DETAILS 1

Sheet Number
C400

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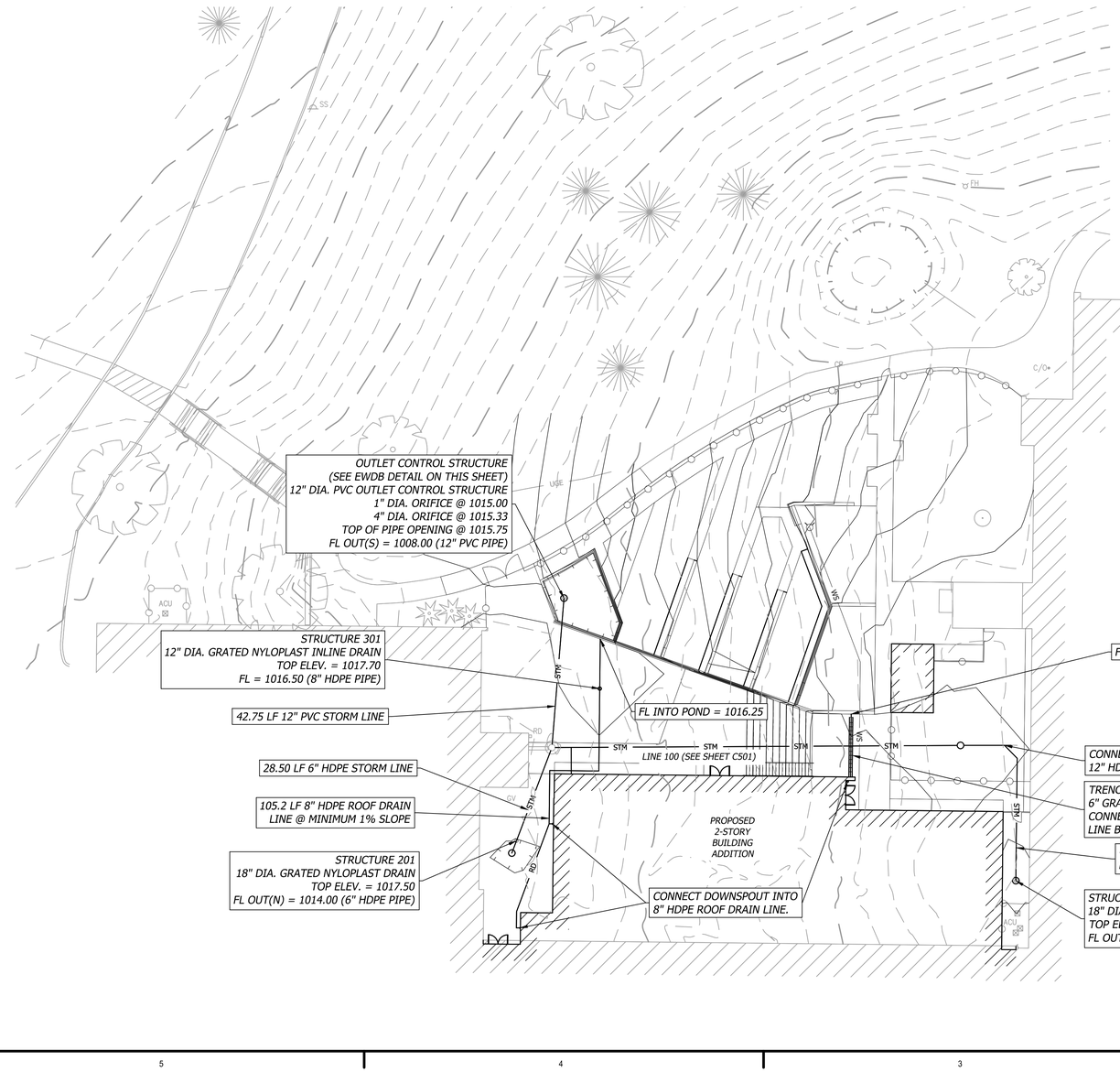

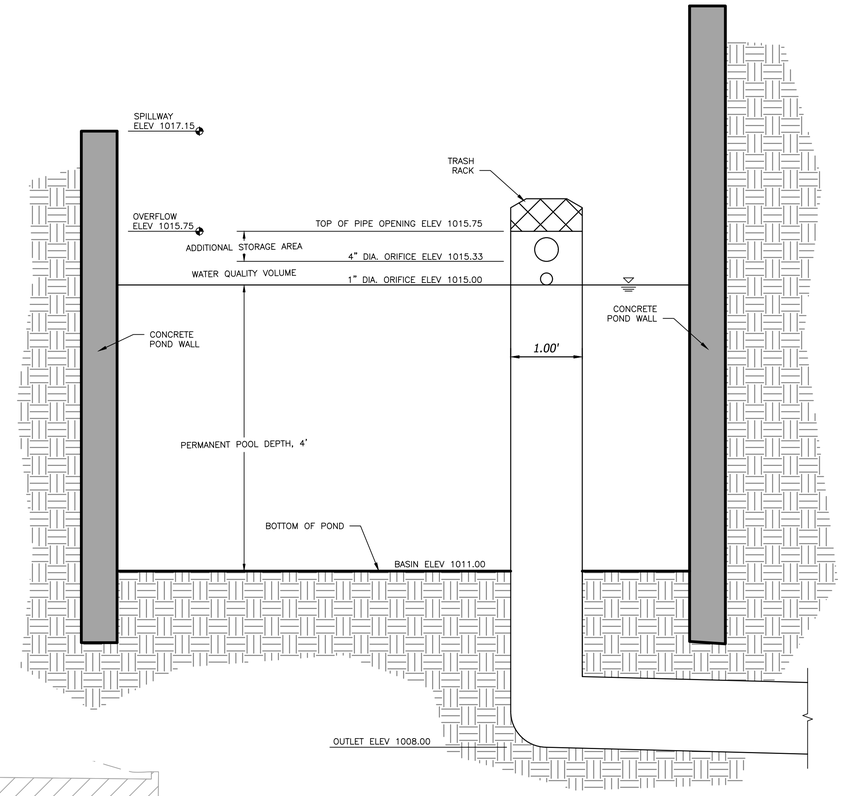

EXTENDED WET DETENTION BASIN SECTION
NOT TO SCALE

DRAINAGE LEGEND

980	PROPOSED FINISH GRADE MAJOR CONTOUR
982	PROPOSED FINISH GRADE MINOR CONTOUR
980	EXISTING GRADE MAJOR CONTOUR
982	EXISTING GRADE MINOR CONTOUR
STM	PROPOSED STORM SEWER LINE
RD	PROPOSED ROOF LINE DRAIN

N

GRAPHIC SCALE
20 0 20

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Revision No.	Description	Date Issued

Area Plan

Sheet Name
STORM PLAN

Sheet Number
C500

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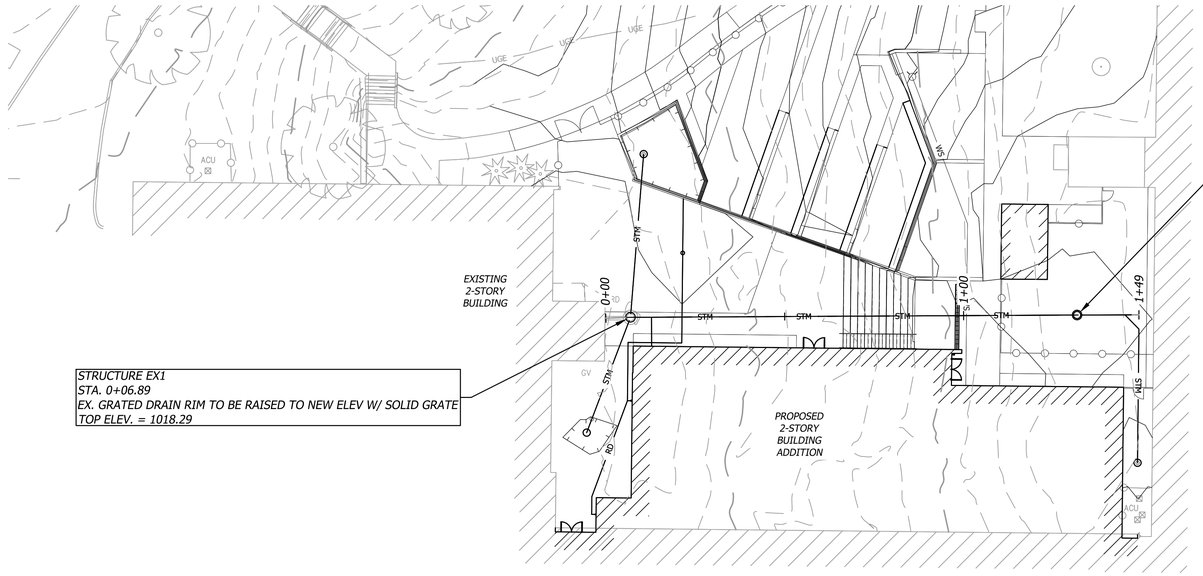
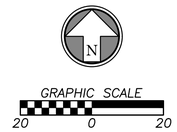
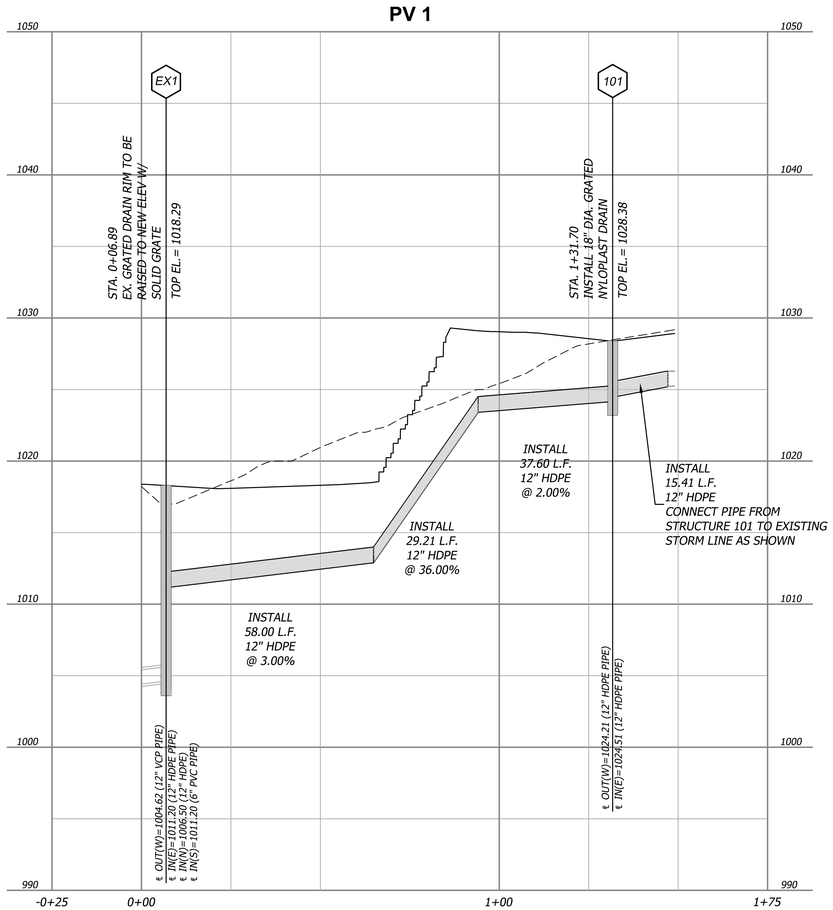


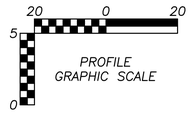
STORM NOTE

ALL NORTHINGS, EASTINGS, AND ALIGNMENT STATIONING FOR STORM STRUCTURES ARE TO CENTER OF STRUCTURE UNLESS STATED OTHERWISE.



PV 1





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Revision No.	Description	Date Issued

Area Plan

Sheet Name
STORM PLAN & PROFILE

Sheet Number
C501

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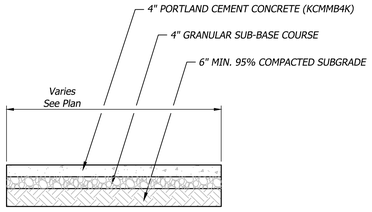
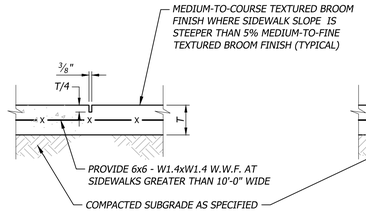
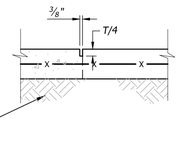
NOTES:
1. CONTROL JOINT SPACING SHALL MATCH WIDTH OF SIDEWALK; RE: LANDSCAPE PLANS.
2. ISOLATION JOINTS SHALL BE PLACED @ 250' CENTERS OR WHERE WALKS ABUT CURBS, BUILDINGS, ETC....
3. ALL EXTERIOR CONCRETE SHALL HAVE A BROOM FINISH.
4. STAINED CONCRETE SIDEWALK; RE: LANDSCAPE PLANS.



014 Concrete Sidewalk Section
Not to Scale

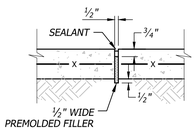


CONTRACTION JT.
SPACE ALL JOINTS AS SHOWN ON THE PLANS



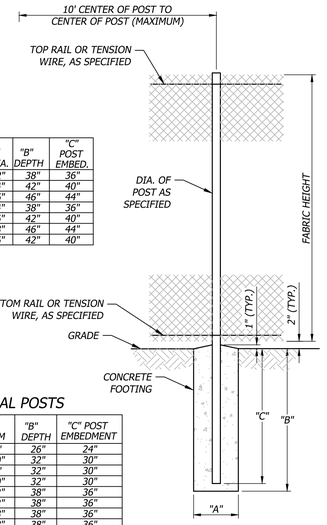
CONSTRUCTION JT.
USE ONLY WHERE CONTRACTION JOINTS WOULD OCCUR

NOTE:
T = 4"
AT SIDEWALKS GREATER THAN 10-0" WIDE, CONCRETE SIDEWALK MAY BE CONSTRUCTED 5" THICK WITHOUT W.W.F. REINFORCEMENT IN LIEU OF 4" THICK WITH W.W.F. REINFORCEMENT



EXPANSION JT. (EJ)
LOCATE WHERE ABUTTING STRUCTURES AND CURBS, AT POINTS OF CURVATURE ON CURVED ALIGNMENTS, AND ELSEWHERE AS SHOWN ON THE PLAN

016 Concrete Sidewalk Joint Details
Not to Scale



GATE POST

GATE LEAF WIDTH	GATE POST (OD)	FABRIC HEIGHT	"A" DIA.	"B" DEPTH	"C" POST EMBED.
3' TO 6'	2.875"	3' TO 5'	12"	38"	36"
		6' TO 9'	14"	42"	40"
		10' TO 12'	16"	46"	44"
7' TO 12'	4.000"	3' TO 5'	14"	38"	36"
		6' TO 9'	16"	42"	40"
		10' TO 12'	18"	46"	44"
13'	6.625"	8'-0"	16"	42"	40"

LINE AND TERMINAL POSTS

FABRIC HEIGHT	TYPE POST	"A" DIAM	"B" DEPTH	"C" POST EMBEDMENT
3'-0" TO 4'-0"	LINE	6"	26"	24"
	TERMINAL	10"	32"	30"
5'-0"	LINE	8"	32"	30"
	TERMINAL	10"	32"	30"
6'-0" TO 9'-0"	LINE	12"	38"	36"
	TERMINAL	12"	38"	36"
10'-0" TO 12'-0"	LINE	18"	38"	36"
	TERMINAL	18"	38"	36"
13'-0" TO 18'-0"	LINE	24"	42"	40"
	TERMINAL	24"	42"	40"

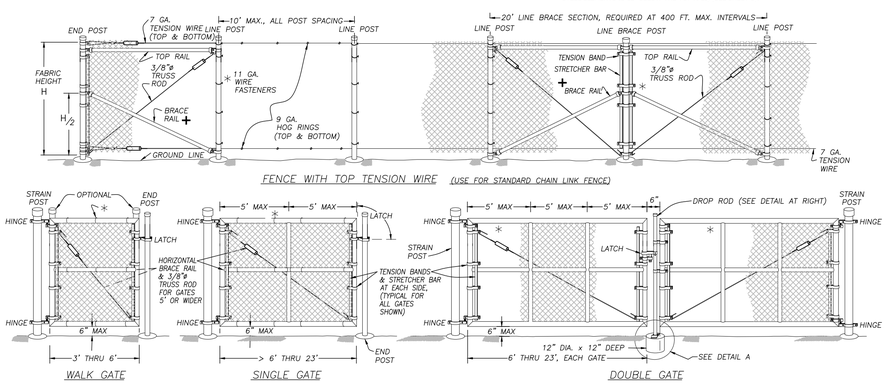
NOTE: TERMINAL POSTS INCLUDE END, CORNER, AND PULL POSTS

042 Chain Link Fence Foundation
Not to Scale

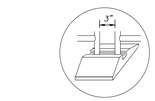
FENCE WITH TOP RAIL (USE ONLY AT SPECIAL LOCATIONS BEYOND CLEAR ZONE WHEN THE TOP RAIL IS SPECIFIED ON PLANS)

LEGEND
* ATTACH FABRIC TO ALL FENCE & GATE STRUCTURES AT 12" INTERVALS VERTICALLY & AT 20" HORIZONTALLY.
TIGHTENER OR TURNBUCKLE SYMBOL, (SEE DETAILS ON SHEETS 2 & 3)
▼ TYPE OF LINE POST (ROUND PIPE OR ROLL-FORMED STEEL) SHALL BE AT THE OPTION OF THE CONTRACTOR UNLESS OTHERWISE SHOWN ON THE PLANS.
+ BRACE RAIL WILL NOT BE REQUIRED FOR 36",42" OR 48" FABRIC HEIGHTS. BRACE RAIL FOR FENCE WITH ROLL-FORMED STEEL ELEMENTS IS 12" BELOW THE TOP RAIL, (SEE SHEET 3).

GENERAL NOTES
1. H (HEIGHT OF FABRIC) SHALL BE AS SHOWN ON THE PLANS. FABRIC IS AVAILABLE IN THE FOLLOWING HEIGHTS: 36", 42", 48", 60", 72", 84", 96", 108", 120" AND 144".
2. CHAIN LINK FENCE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 181.
3. CHAIN LINK FABRIC SHALL BE 2" MESH NO. 9 GAGE GALVANIZED OR ALUMINUM COATED WIRE SECURELY FASTENED TO TENSION WIRE, LINE POSTS, RAILS, BRACES AND STRETCHER BARS SPACED AS SHOWN HEREON. WIRE FASTENERS AND TIE CLIPS SHALL BE NO. 11 GAGE (W&M) GALVANIZED STEEL WIRE OR NO. 7 GAGE (B&S) ALUMINUM WIRE, AND HOG RINGS SHALL BE NO.9 GAGE, ALL IN CONFORMANCE WITH ASTM F 626.
4. STEEL POSTS, RAILS AND GATE FRAMES SHALL CONFORM TO AASHTO M 181 TYPE 1, GRADE 1 OR GRADE 2.
5. AT THE CONTRACTOR'S OPTION, PIPE USED FOR FENCE CONSTRUCTION SHALL CONFORM TO THE DIMENSIONS AND WEIGHTS FOR EITHER "ORDINARY PIPE" OR "ALTERNATIVE PIPE" AS SHOWN ON SHEET 2. "ALTERNATIVE PIPE" SHALL BE HIGH STRENGTH STEEL PIPE MEETING THE REQUIREMENTS OF FED. SPEC. RR-F-191/3C.
6. TENSION WIRE SHALL BE CONTINUOUS BETWEEN END OR CORNER POST AND LINE BRACE POST. A TURNBUCKLE OR OTHER APPROVED TIGHTENING DEVICE SHALL BE USED FOR EACH CONTINUOUS SPAN OF TENSION WIRE.
7. TENSION WIRE SHALL BE AS SPECIFIED IN AASHTO M 181.
8. CONCRETE FOOTINGS SHALL HAVE TOPS CROWNED AT GROUND LEVEL AND SHALL BE CLASS B. CONCRETE WITH LIGHTWEIGHT AGGREGATE CONFORMING TO AASHTO M 195, WILL BE PERMITTED.
9. TERMINATION OF FENCE AT BRIDGES OR OTHER STRUCTURES SHALL BE AS SHOWN ON PLANS.
10. CHAIN LINK FABRIC UP TO 5 FEET HIGH SHALL BE KNUCKLED AT THE TOP AND BOTTOM SELVAGES. FABRIC OVER 5 FEET HIGH SHALL BE TWISTED AND BARBED ON THE TOP SELVAGE AND KNUCKLED ON THE BOTTOM SELVAGE.
11. FENCE MAY BE CONSTRUCTED WITH EITHER ROUND PIPE OR ROLL-FORMED STEEL COMPONENTS. THE CONTRACTOR SHALL STATE THE TYPE OF CONSTRUCTION AND TYPE OF LINE POST TO BE USED THROUGHOUT THE PROJECT, AT THE PRE CONSTRUCTION CONFERENCE.

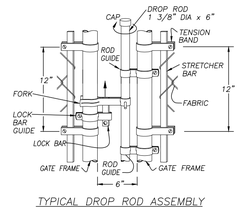


FENCE WITH TOP TENSION WIRE (USE FOR STANDARD CHAIN LINK FENCE)



DROP ROD IS OPTIONAL IF GATE FRAMES EXTEND DOWN TO CENTER REST. USE LATCH SHOWN FOR WALK OR SINGLE GATE.

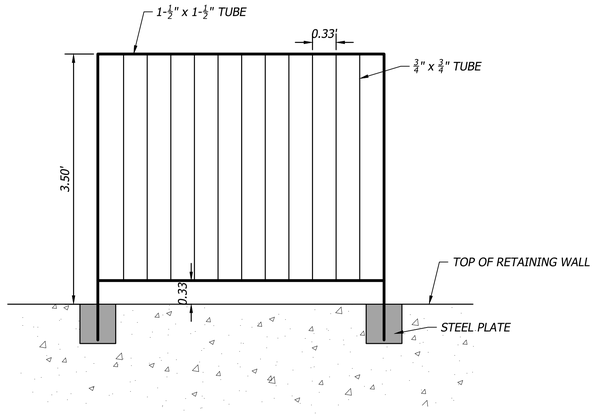
DETAIL A TYPICAL CENTER REST



TYPICAL DROP ROD ASSEMBLY

044 Chain Link Fencing / Gates
Not to Scale

NOTES:
1. GUARDRAIL MATERIAL TO BE GALVANIZED AND PAINTED BLACK.
2. TO BE ATTACHED ON SIDE OF WALL BY STEEL PLATE.



050 Side-Mounted Guardrail
Not to Scale

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EAST HIGH SCHOOL REMODEL & ADDITION

7500 MISSION ROAD
PRAIRIE VILLAGE, KS 66208

Project Phase
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Revision No.	Description	Date Issued

Area Plan

Sheet Name
CONSTRUCTION DETAILS 1

Sheet Number
C600

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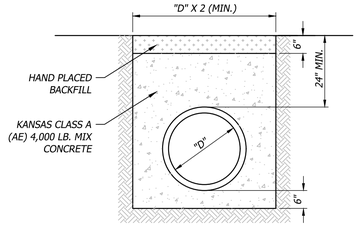
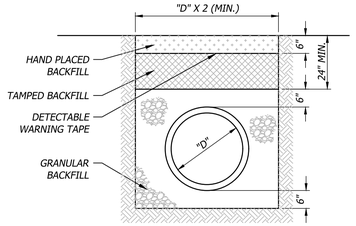
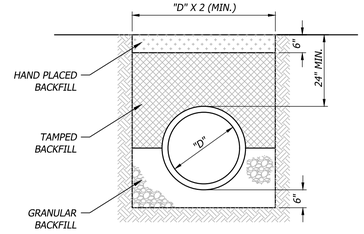


CONCRETE ENCASEMENT
CLASS "A"



HDPE/PVC PIPE BEDDING
CLASS "C"

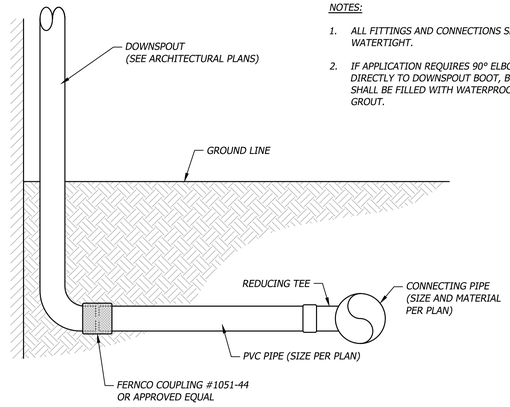


RIGID PIPE (RCP) BEDDING
CLASS "B"

NOTES:

1. GRANULAR FILL SHALL BE 1/2" CLEAN ROCK OR SAND/GRAVEL BEDDING MEETING KDOT TYPE UD-1, PLACED IN 6" LIFTS AND COMPACTED BY SLICING WITH A SHOVEL.
2. TAMPED FILL SHALL BE FINELY DIVIDED, JOB EXCAVATED MATERIAL FREE OF DEBRIS, ORGANIC MATERIAL, AND STONES, COMPACTED TO TYPE AA MR-5 COMPACTION.
3. HAND PLACED FILL SHALL BE FINELY DIVIDED MATERIAL, FREE OF DEBRIS AND STONES, COMPACTED TO TYPE AA MR-5 COMPACTION. ALL PIPE SHALL BE INSPECTED PRIOR TO BACKFILL.
4. ALL PIPE COVERED PRIOR TO INSPECTION SHALL BE UNCOVERED AT THE CONTRACTORS EXPENSE.

306 Pipe Bedding
Not to Scale



NOTES:

1. ALL FITTINGS AND CONNECTIONS SHALL BE WATERTIGHT.
2. IF APPLICATION REQUIRES 90° ELBOW BE ATTACHED DIRECTLY TO DOWNSPOUT BOOT, BELL END OF ELBOW SHALL BE FILLED WITH WATERPROOF, NON-SHRINKING GROUT.

309 Downspout Connection
Not to Scale

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Sheet Name
STORM DETAILS 1

Sheet Number
C601

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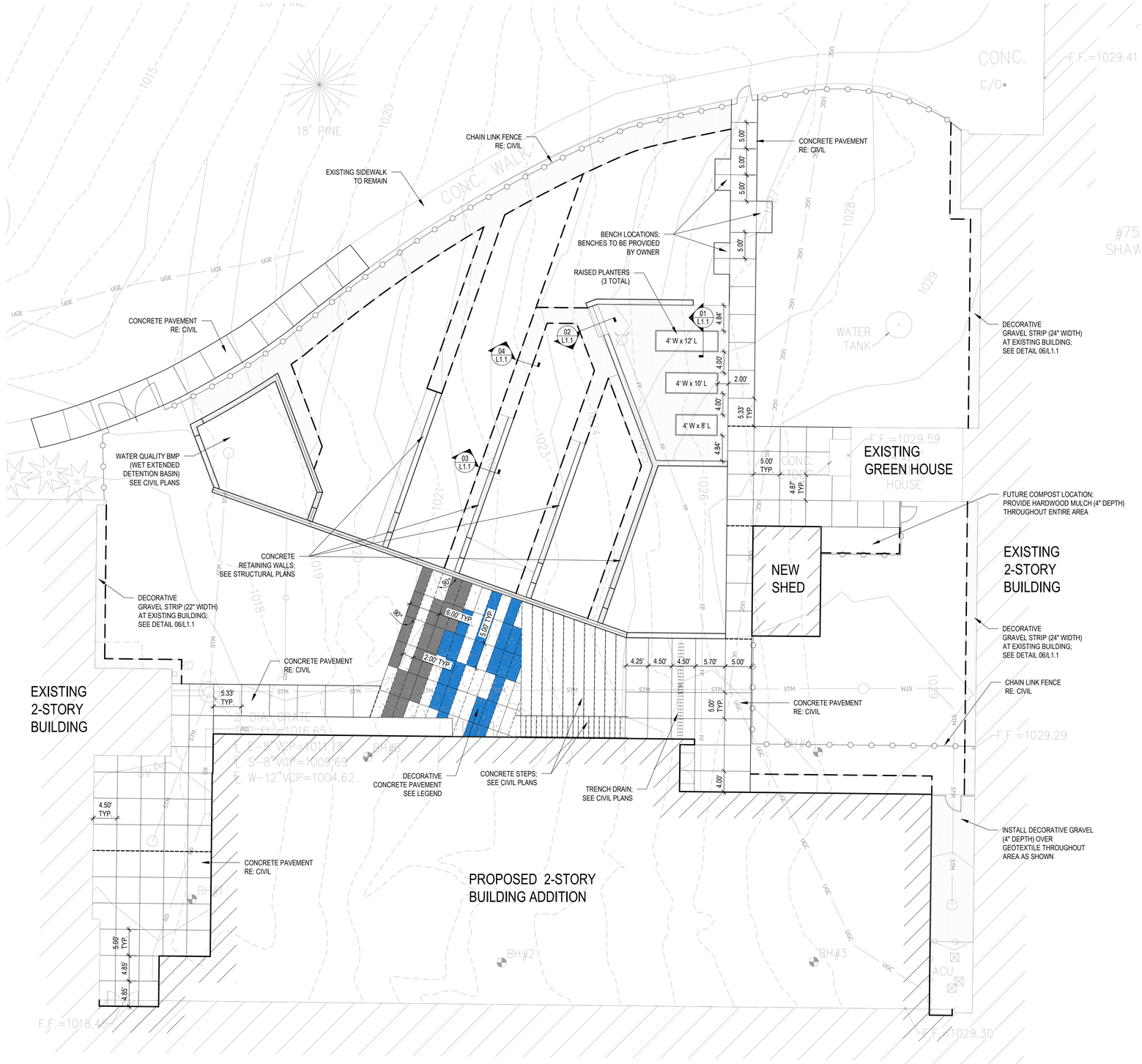
HARDSCAPE FINISH LEGEND

- CONCRETE WITH MEDIUM BROOM FINISH AND PENETRATING, SEMI-TRANSPARENT STAIN
  PRODUCT: EUCLID CHEMICAL 'INCRETE STONE ESSENCE'
  COLOR: LIGHT BLUE
- CONCRETE WITH MEDIUM BROOM FINISH AND PENETRATING, SEMI-TRANSPARENT STAIN
  PRODUCT: EUCLID CHEMICAL 'INCRETE STONE ESSENCE'
  COLOR: DARK GREY
- CONCRETE WITH MEDIUM BROOM FINISH
  COLOR: NATURAL
- CONTRACTION JOINT PER CIVIL DETAILS
- EXPANSION JOINT PER CIVIL DETAILS
- DECORATIVE JOINT: DETAIL 05/L1.1
- STEEL EDGING (DETAIL 07/L1.1)
- DECORATIVE GRAVEL

GENERAL NOTES

1. REFER TO CIVIL DRAWINGS FOR ALL PAVEMENT LAYOUT AND GRADING INFORMATION.
2. REFER TO CIVIL DRAWINGS FOR CONTRACTION AND EXPANSION JOINT DETAILS.
3. THE CONTRACTOR SHALL SUBMIT CONCRETE STAIN PRODUCT INFORMATION FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
4. THE CONTRACTOR SHALL PROVIDE AN ON-SITE MOCK-UP FOR THE DECORATIVE CONCRETE PAVEMENT FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. THE MOCK- UP SIZE SHALL BE LARGE ENOUGH (6' X 6' MIN.) TO SHOW THE DECORATIVE JOINT PATTERN WITH BOTH CONCRETE STAIN FINISHES.



0 5 10 20 NORTH

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Area Plan

Sheet Name
HARDSCAPE FINISH PLAN

Sheet Number
L1.0

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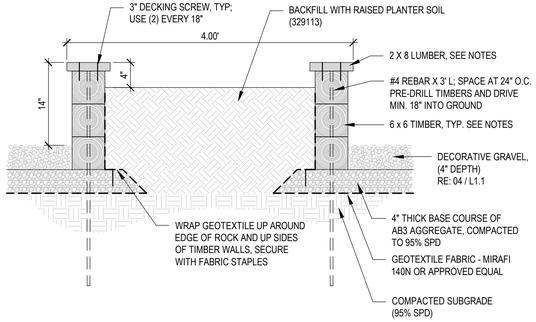
NOTES:

1. ALL LUMBER AND TIMBERS TO BE PRESSURE TREATED SOUTHERN YELLOW PINE.
2. ALTERNATE ORIENTATION OF TIMBERS TO CREATE LAPPED CORNERS.
3. MITER CORNERS OF 2 X 8 TOP BOARDS.
4. REMOVE ROUGH SPOTS AND BURRS AFTER CUTTING.
5. SEE LANDSCAPE PLAN FOR LENGTHS OF RAISED PLANTERS.



RAISED PLANTER N.T.S. 01

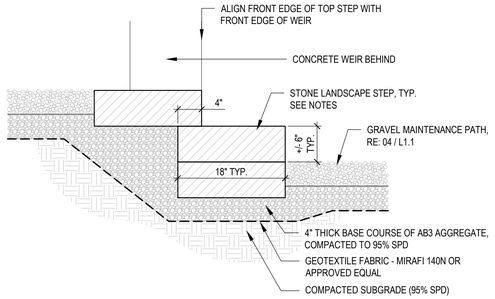
NOTES:

1. STONE LANDSCAPE STEPS TO BE HOLSTON VALLEY STEPS (5-8" H X 18" D X 4' L) AS PROVIDED BY:

   HOUSE OF ROCKS
   1725 MERRIAM LANE, KANSAS CITY, KS
   WWW.THEHOUSEOFROCKS.COM
   (913) 432-5990

   OR APPROVED EQUAL

2. REFER TO PLANS FOR LOCATION OF STEPS.



STONE LANDSCAPE STEPS N.T.S. 02

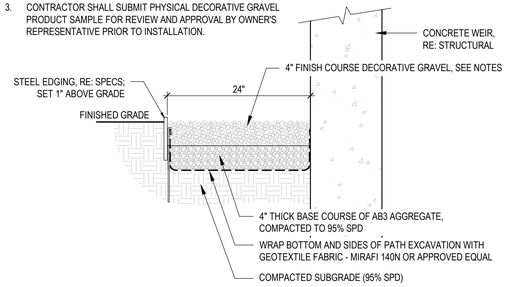
NOTES:

1. DECORATIVE GRAVEL TO BE ¾" TRAP ROCK AS PROVIDED BY:

   HOUSE OF ROCKS
   1725 MERRIAM LANE, KANSAS CITY, KS
   WWW.THEHOUSEOFROCKS.COM
   (913) 432-5990

   OR APPROVED EQUAL

2. REFER TO PLANS FOR LOCATION OF MAINTENANCE PATHS.
3. CONTRACTOR SHALL SUBMIT PHYSICAL DECORATIVE GRAVEL PRODUCT SAMPLE FOR REVIEW AND APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.



GRAVEL PATH AT WEIR WALL N.T.S. 03

NOTES:

1. DECORATIVE GRAVEL TO BE ¾" TRAP ROCK AS PROVIDED BY:

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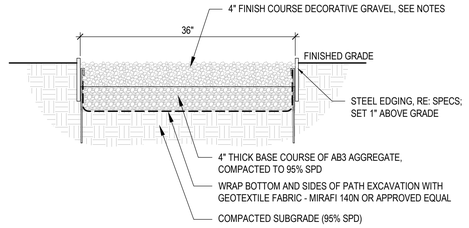
   (913) 432-5990

   OR APPROVED EQUAL

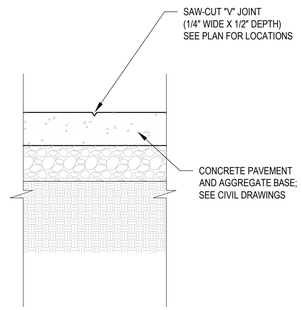
2. REFER TO PLANS FOR LOCATION OF MAINTENANCE PATHS.
3. CONTRACTOR SHALL SUBMIT PHYSICAL DECORATIVE GRAVEL PRODUCT SAMPLE FOR REVIEW AND APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.



GRAVEL MAINTENANCE PATH N.T.S. 04

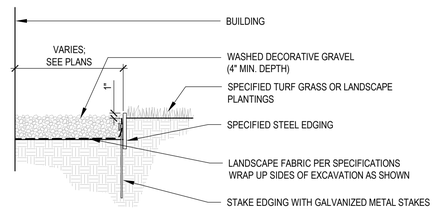
NOTES:

1. CONTRACTOR TO PROVIDE ONSITE MOCK-UP OF DECORATIVE JOINTS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.



DECORATIVE JOINT

DECORATIVE CONCRETE JOINT N.T.S. 05



NOTES:

1. LANDSCAPE FABRIC SHALL NOT BE VISIBLE AT THE COMPLETION OF GRAVEL STRIP INSTALLATION.
2. SEE PLANS FOR DECORATIVE GRAVEL STRIP LOCATIONS. CONTRACTOR SHALL PROVIDE A SAMPLE OF DECORATIVE GRAVEL FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. DECORATIVE GRAVEL TO BE ¾" TRAP ROCK AS PROVIDED BY:

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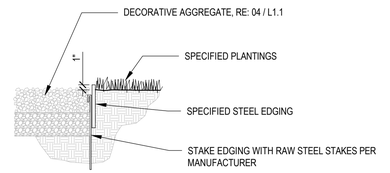
DECORATIVE GRAVEL STRIP N.T.S. 06



NOTES:

1. REFER TO SPECIFICATIONS FOR EDGING MANUFACTURER. SET ALL EDGING 1" ABOVE FINISH GRADE AS SHOWN.
2. STEEL EDGING SHALL BE INSTALLED FLUSH WITH TOP OF CONCRETE WALKS.
3. ALL JOINTS SHALL BE SECURELY STAKED.

STEEL EDGING N.T.S. 07

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Sheet Name
SITE DETAILS

Sheet Number
L1.1

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PLANT SCHEDULE

DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL
QM	3	Quercus muehlenbergii	Chinkapin Oak	B & B	2.5" Cal.
SHRUBS	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**SPACING**
IS	27	Itea virginica 'Sprich' TM	Little Henry Sweetspire	#3/5 Cont. (Min. 24" Ht.)	36" o.c.
PJ	8	Physocarpus opulifolius 'Jefam' TM	Amber Jubilee Ninebark	#3/5 Cont. (Min. 24" Ht.)	36" o.c.
PERENNIALS	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**SPACING**
AM	15	Allium x 'Millenium'	Millenium Ornamental Onion	#1 Cont.	15" o.c.
AT2	45	Asclepias tuberosa	Butterfly Milkweed	#1 Cont.	AS SHOWN
BP	40	Baptisia x 'Purple Smoke'	Purple Smoke Wild Indigo	#1 Cont.	24" o.c.
CZ	10	Coreopsis verticillata 'Zagreb'	Zagreb Tickseed	#1 Cont.	18" o.c.
EH	45	Echinacea pallida 'Hula Dancer'	Hula Dancer Pale Purple Coneflower	#1 Cont.	AS SHOWN
IC	61	Iris fulva	Copper Iris	#1 Cont.	AS SHOWN
IV	160	Iris virginica	Blue Flag Iris	#1 Cont.	AS SHOWN
PH	88	Penstemon digitalis 'Husker Red'	Husker Red Beardtongue	#1 Cont.	AS SHOWN
SH2	20	Sporobolus heterolepis	Prairie Dropseed	#1 Cont.	18" o.c.
SO	23	Symphyotrichum oblongifolium 'October Skies'	October Skies Fall Aster	#1 Cont.	18" o.c.
PERENNIALS (HATCH)	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	
JE	225	Juncus effusus	Common Rush	#1 Cont.	15" o.c.

TURF SEED / SOD	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING
	6,268 sf	Festuca arundinacea ``Turf-Type``	Turf-Type Tall Fescue	sod	

PLANT SCHEDULE

NATIVE GRASS AND SEDGE MIX	2,819 sf			
Bouteloua curtipendula / Side Oats Grama	563	32/38 CELL PLUG	30% @ 15" oc	
Bouteloua gracilis / Blue Grama Grass	293	32/38 CELL PLUG	10% @ 12" oc	
Carex brevior / Oval Sedge	188	32/38 CELL PLUG	10% @ 15" oc	
Dalea purpurea / Purple Prairie Clover	188	Quart	10% @ 15" oc	
Pycnanthemum tenuifolium / Slender Mountain Mint	188	Quart	10% @ 15" oc	
Schizachyrium scoparium 'Standing Ovation' / Standing Ovation Little Bluestem	563	32/38 CELL PLUG	30% @ 15" oc	
NATIVE GRASS MIX	300 sf			
Schizachyrium scoparium 'Standing Ovation' / Standing Ovation Little Bluestem	60	#1 Cont.	30% @ 15" oc	
Sporobolus heterolepis / Prairie Dropseed	97	#1 Cont.	70% @ 18" oc	

NATIVE GRASS AND SEDGE MIX PLANTING NOTES:
DESIGN INTENT: A NATIVE GRASS AND SEDGE MIX (COOL AND WARM SEASON PLANTS) INTERMINGLED WITH FINELY TEXTURED WILDFLOWER PLANTINGS TO PROVIDE AN OVERALL GRASSY MEADOW APPEARANCE.

PLANTING SEQUENCE:
- THE QUART SIZED WILDFLOWERS SHALL BE INSTALLED FIRST IN GROUPS OF 3-7 PLANTS.
- THE SEDGE PLUGS INSTALLATION SHALL FOLLOW IN GROUPS OF 5-10 PLANTS.
- THE NATIVE GRASS PLUGS SHALL BE PLANTED LAST IN GROUPS OF 7-15 PLANTS.
- THE OWNER'S REPRESENTATIVE WILL REVIEW AND APPROVE ALL PLANTS LAYOUTS PRIOR TO INSTALLATION.

NATIVE GRASS MIX PLANTING NOTES:
DESIGN INTENT: A NATIVE GRASS MIX INTERMINGLED WITH WILDFLOWER PLANTINGS TO PROVIDE AN OVERALL NATURALISTIC GARDEN APPEARANCE.

PLANTING SEQUENCE:
- THE #1 CONT. WILDFLOWERS AND PERENNIALS SHALL BE INSTALLED FIRST AS SHOWN ON THE PLAN.
- THE PRAIRIE DROPSEED SHALL BE PLANTED IN GROUPS OF 5-10 PLANTS.
- THE 'STANDING OVATION' LITTLE BLUESTEM SHALL BE PLANTED IN GROUPS OF 7-15 PLANTS.
- THE OWNER'S REPRESENTATIVE WILL REVIEW AND APPROVE ALL PLANTS LAYOUTS PRIOR TO INSTALLATION.

MATERIALS LEGEND

DECORATIVE GRAVEL (SEE SHEET L1.0)

STEEL EDGING (DETAIL 07/L1.1)

LANDSCAPE NOTES

1. LOCATE UTILITIES PRIOR TO COMMENCING LANDSCAPE OPERATIONS. ALL TREES SHALL BE FIELD POSITIONED AS TO AVOID CONFLICTS WITH EXISTING AND PROPOSED UTILITIES. NOTIFY OWNER'S REPRESENTATIVE OF ANY CONFLICTS OR OBSTRUCTIONS.

2. CONTRACTOR SHALL STAKE ALL PLANTING AREAS IN THE FIELD PRIOR TO PLANTING FOR APPROVAL OF THE OWNER'S REPRESENTATIVE.

3. CONTRACTOR SHALL VERIFY ALL PLANT QUANTITIES PRIOR TO PLANTING. ANY DISCREPANCIES WITH THE PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. THE PLAN QUANTITIES SHALL SUPERCEDE SCHEDULED QUANTITIES.

4. ALL PLANT MATERIAL SHALL BE SPECIMEN QUALITY AND SHALL COMPLY WITH RECOMMENDATIONS AND REQUIREMENTS OF ANSI A60.1 THE 'AMERICAN STANDARD FOR NURSERY STOCK'.

5. ALL PLANTING BEDS SHALL BE EDGED WITH GALVANIZED STEEL EDGING PER THE PLANS.

6. PREPARE PLANTING BEDS AND INCORPORATE AMENDMENTS ACCORDING TO SPECIFICATIONS.

7. DOUBLE GROUND HARDWOOD MULCH, PER SPECIFICATIONS SHALL BE USED AS A THREE INCH (3") TOP DRESSING IN ALL SHRUB PLANTING BEDS AND AROUND ALL TREES. SINGLE TREES AND SHRUBS SHALL BE MULCHED TO THE OUTSIDE EDGE OF THE SAUCER OR LANDSCAPE ISLAND. LEAF COMPOST MULCH, PER SPECIFICATIONS, SHALL BE USED A THREE INCH (3") TOP DRESSING FOR THE NATIVE GRASS & WILDFLOWER GARDEN, NATIVE RUSH & IRIS GARDEN, AND NATIVE GRASS & SEDGE MIX PLANTINGS.

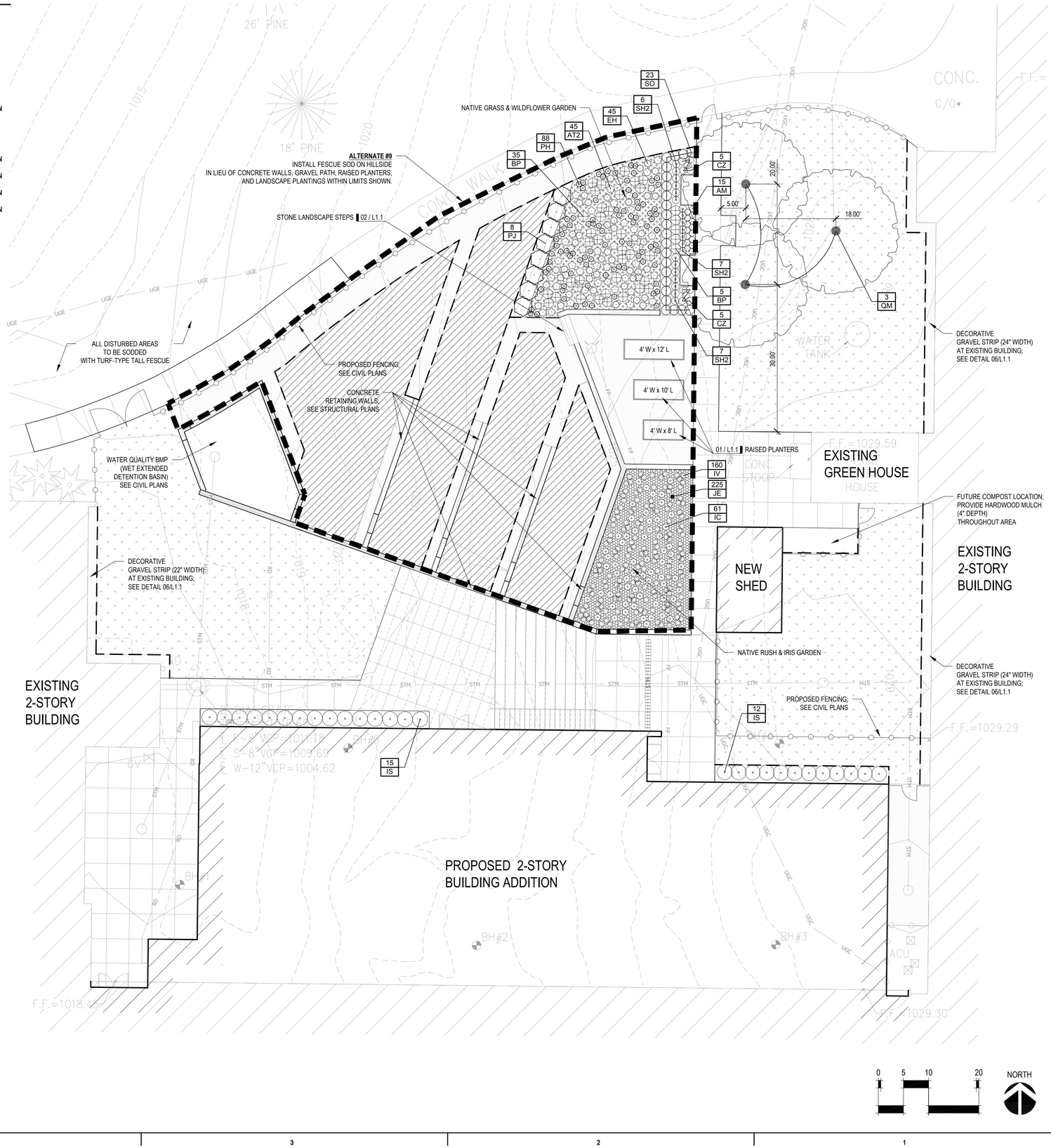
8. ALL TREES SHALL BE STAKED AND GUYED PER DETAIL AND SPECIFICATIONS.

9. ALL PLANT MATERIAL SHALL BE INSTALLED TO ALLOW A ONE FOOT (1') CLEARANCE BETWEEN PLANT AND ADJACENT PAVEMENT.

10. THE LANDSCAPE CONTRACTOR SHALL NOT COMMENCE WORK UNTIL THE SITE IS FREE OF DEBRIS CAUSED BY ON-GOING CONSTRUCTION OPERATIONS. REMOVAL OF DEBRIS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. LANDSCAPE WORK SHALL NOT BEGIN UNTIL THE OWNER'S REPRESENTATIVE HAVE GIVEN WRITTEN APPROVAL FOR SUCH. THERE SHALL BE NO DELAYS DUE TO LACK OF COORDINATION FOR THIS ACTIVITY.

11. THE OWNER'S REPRESENTATIVE SHALL APPROVE FINE GRADING AND CONDITION OF SITE PRIOR TO SODDING AND OR SEEDING OPERATIONS.

12. ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT DESIGNATED FOR OTHER PLANTINGS SHALL BE SODDED WITH DROUGHT TOLERANT TURF TYPE TALL FESCUE. SEE SPECIFICATION 329200.



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Project Number
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Area Plan

Sheet Name
LANDSCAPE PLAN

Sheet Number
L2.0

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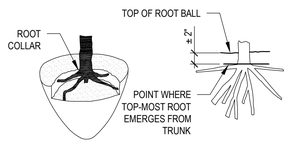
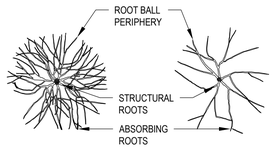
NOTES:

1. OBSERVATIONS OF ROOTS SHALL OCCUR PRIOR TO ACCEPTANCE. ROOTS AND SOIL MAY BE REMOVED DURING THE OBSERVATION PROCESS; SUBSTRATE/SOIL SHALL BE REPLACED AFTER THE OBSERVATIONS HAVE BEEN COMPLETED.
2. SEE SPECIFICATIONS FOR OBSERVATION PROCESS AND REQUIREMENTS.

ACCEPTABLE

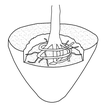


THE POINT WHERE TOP-MOST ROOT(S) EMERGES FROM THE TRUNK (ROOT COLLAR) SHOULD BE WITHIN THE TOP 2" OF SUBSTRATE. THE ROOT COLLAR AND THE ROOT BALL INTERIOR SHOULD BE FREE OF DEFECTS INCLUDING CIRCLING, KINKED, ASCENDING, AND STEM GIRDLING ROOTS. STRUCTURAL ROOTS SHALL REACH THE PERIPHERY NEAR THE TOP OF THE ROOT BALL.



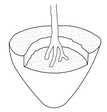
ROOTS RADIATE FROM TRUNK AND REACH SIDE OF ROOT BALL WITHOUT DEFECTING DOWN OR AROUND.

REJECTABLE

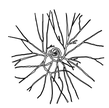


STRUCTURAL ROOTS CIRCLE INTERIOR OF ROOT BALL. NO STRUCTURAL ROOTS ARE HORIZONTAL AND REACH THE ROOT BALL PERIPHERY NEAR THE TOP OF THE ROOT BALL.

ONLY ABSORBING ROOTS REACH THE PERIPHERY NEAR THE TOP OF THE ROOT BALL. STRUCTURAL ROOTS MOSTLY WRAP OR ARE DEFLECTED ON THE ROOT BALL INTERIOR.

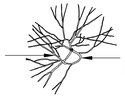


STRUCTURAL ROOTS DESCEND INTO ROOT BALL INTERIOR. NO STRUCTURAL ROOTS ARE HORIZONTAL AND REACH THE ROOT BALL PERIPHERY NEAR THE TOP OF THE ROOT BALL.



STRUCTURAL ROOTS CIRCLE AND DO NOT RADIATE FROM THE TRUNK.

STRUCTURAL ROOTS PRIMARILY GROW TO ONE SIDE.



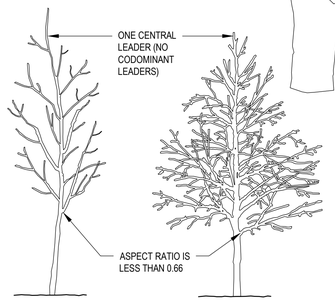
STRUCTURAL ROOTS MISSING FROM ONE SIDE, AND/OR GROW TANGENT TO TRUNK.

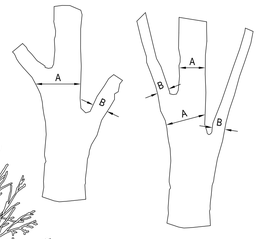
ROOT BALL OBSERVATIONS - B&B 01
N.T.S.

NOTES:

1. ASPECT RATIO SHALL BE LESS THAN 0.66 ON ALL BRANCH UNIONS. ASPECT RATIO IS THE DIAMETER OF BRANCH (B) DIVIDED BY THE DIAMETER OF THE TRUNK (A) AS MEASURED 1" ABOVE THE TOP OF THE BRANCH UNION.
2. ANY TREE NOT MEETING THE CROWN OBSERVATIONS DETAIL MAY BE REJECTED.

ACCEPTABLE

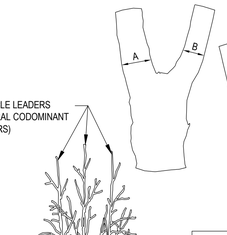




EXAMPLE		
A	B	ASPECT RATIO
1.50"	0.50"	0.33
2.50"	0.90"	0.36
2.0"	1.00"	0.50
2.50"	1.60"	0.64

ASPECT RATIO OF B:A LESS THAN 0.66 AS MEASURED 1" ABOVE THE TOP OF THE BRANCH UNION.

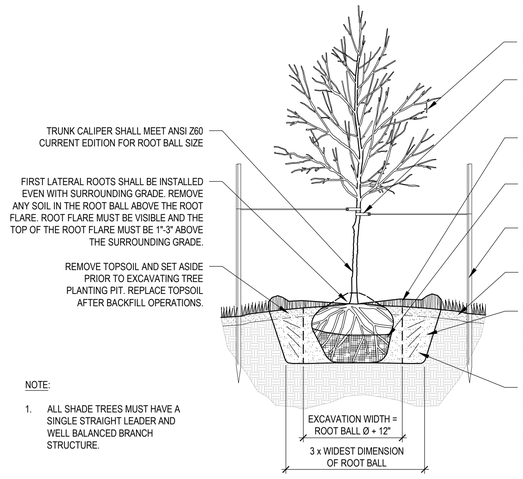
REJECTABLE



EXAMPLE		
A	B	ASPECT RATIO
2.50"	1.80"	0.72
2.0"	2.0"	1.0
2.50"	2.0"	0.80
4.0"	3.0"	0.75

ASPECT RATIO OF B:A GREATER THAN OR EQUAL TO 0.66 AS MEASURED 1" ABOVE THE TOP OF THE BRANCH UNION.

CROWN OBSERVATIONS - SHADE TREE 02
N.T.S.



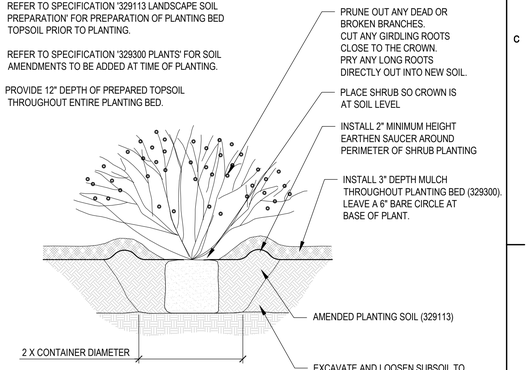
NOTE:

1. ALL SHADE TREES MUST HAVE A SINGLE STRAIGHT LEADER AND WELL BALANCED BRANCH STRUCTURE.

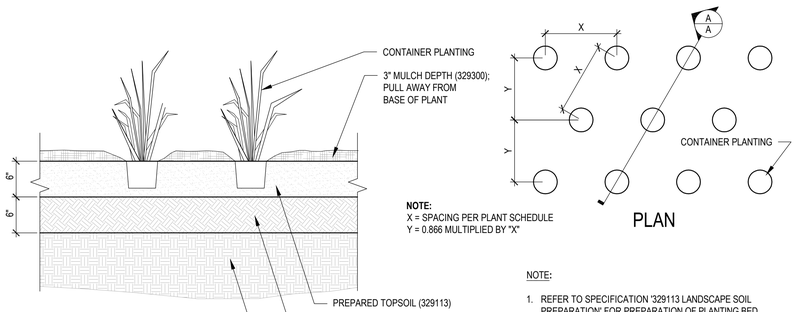
DECIDUOUS TREE - B&B 03
N.T.S.

NOTES:

1. REFER TO SPECIFICATION '329113 LANDSCAPE SOIL PREPARATION' FOR PREPARATION OF PLANTING BED TOPSOIL PRIOR TO PLANTING.
2. REFER TO SPECIFICATION '329300 PLANTS' FOR SOIL AMENDMENTS TO BE ADDED AT TIME OF PLANTING.
3. PROVIDE 12" DEPTH OF PREPARED TOPSOIL THROUGHOUT ENTIRE PLANTING BED.



SHRUB PLANTING 04
N.T.S.



NOTE:
X = SPACING PER PLANT SCHEDULE
Y = 0.866 MULTIPLIED BY "X"

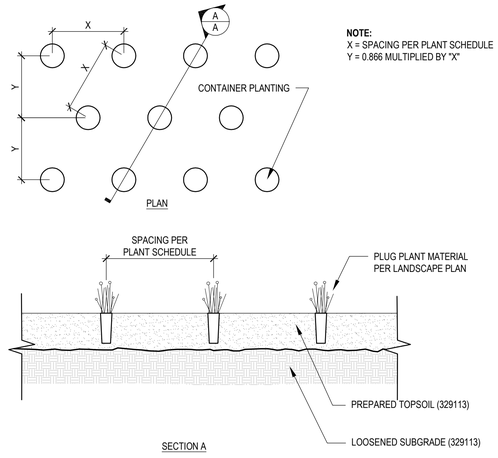
SECTION A-A

PLAN

NOTE:

1. REFER TO SPECIFICATION '329113 LANDSCAPE SOIL PREPARATION' FOR PREPARATION OF PLANTING BED TOPSOIL PRIOR TO PLANTING.
2. REFER TO SPECIFICATION '329300 PLANTS' FOR SOIL AMENDMENTS TO BE ADDED AT TIME OF PLANTING.
3. PREPARED TOPSOIL SHALL NOT BE PLACED BEFORE SUBGRADE HAS BEEN LOOSENED.

PERENNIAL PLANTING 05
N.T.S.

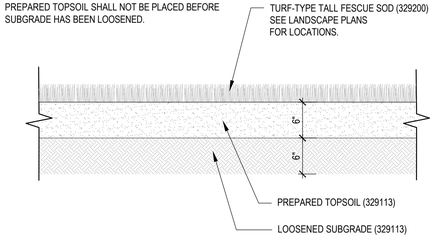


NOTE:
X = SPACING PER PLANT SCHEDULE
Y = 0.866 MULTIPLIED BY "X"

PLUG PLANTINGS 06
N.T.S.

NOTES:

1. REFER TO SPECIFICATION '329113 LANDSCAPE SOIL PREPARATION' FOR PREPARATION OF TURF AREAS PRIOR TO SODDING AND SEEDING.
2. REFER TO SPECIFICATION '329200 TURF AND GRASSES' FOR SOIL AMENDMENTS TO BE ADDED AT TIME OF SODDING AND SEEDING.
3. PREPARED TOPSOIL SHALL NOT BE PLACED BEFORE SUBGRADE HAS BEEN LOOSENED.



SECTION

FESCUE SOD 07
N.T.S.

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Project Number
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01/06/2022

Revision No.	Description	Date Issued

Area Plan

Sheet Name
LANDSCAPE DETAILS

Sheet Number
L2.1

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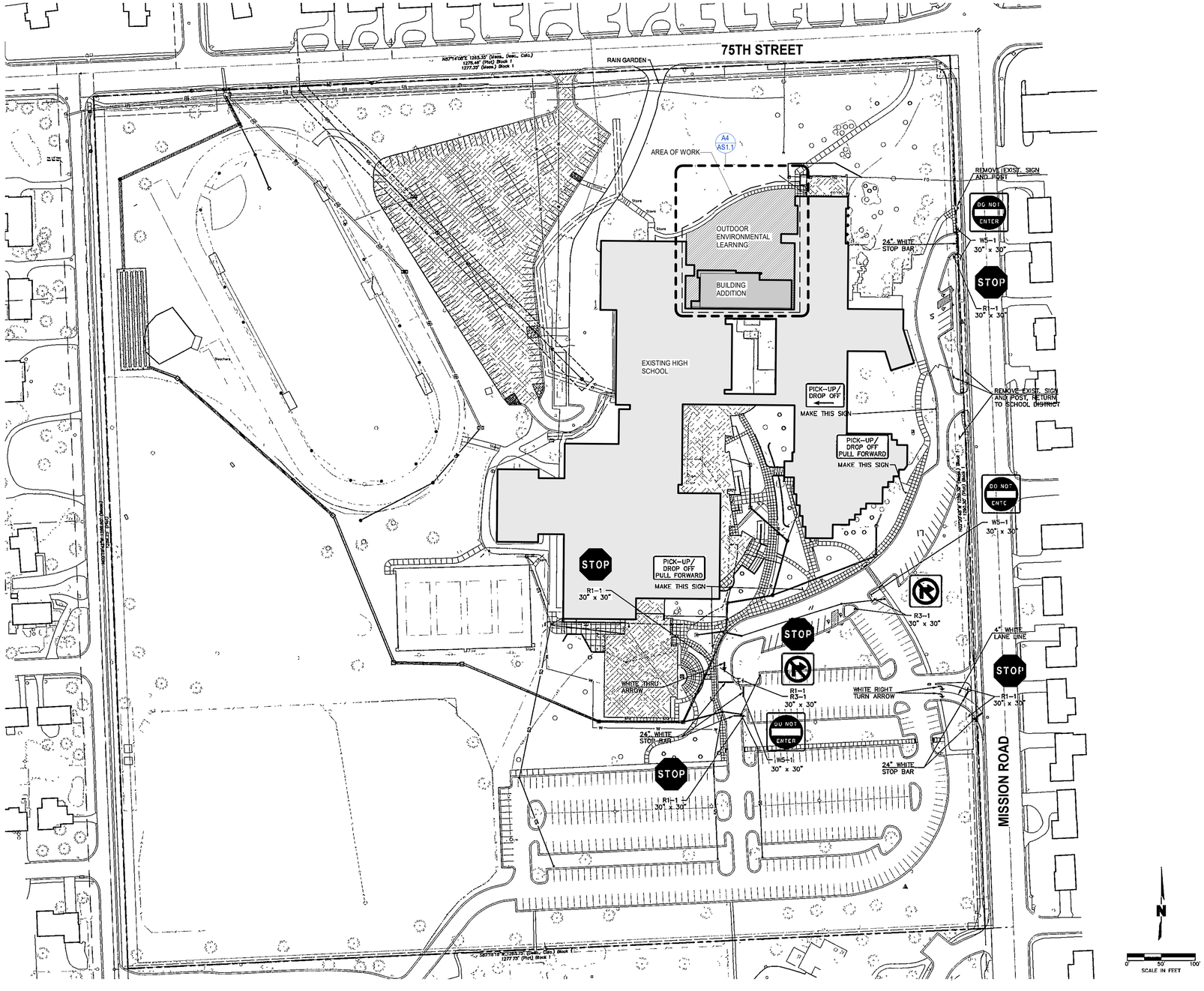

A5 OVERALL SITE PLAN
SCALE: NTS

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. ANY DISCREPANCY WITH THE EXISTING SITE CONDITIONS AND/OR THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION AND INSTRUCTION.

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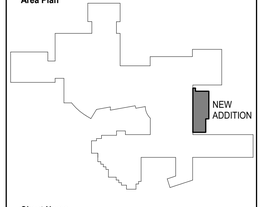

Sheet Name
OVERALL SITE PLAN

Sheet Number
AS1.0A

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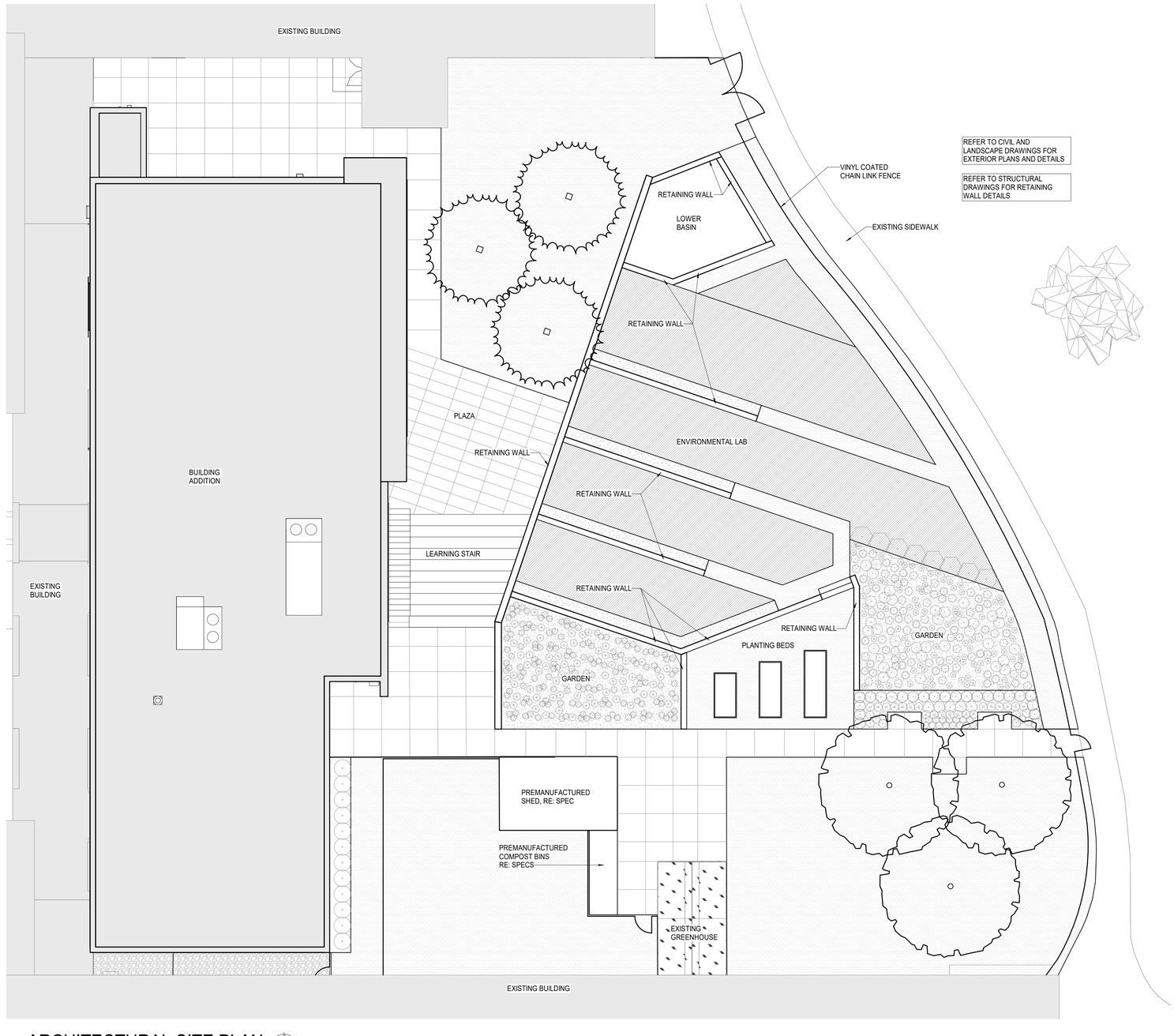

A4 ARCHITECTURAL SITE PLAN

SCALE: 1" = 10'-0"

NORTH

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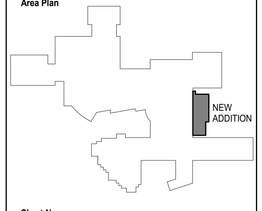

Sheet Name
ARCHITECTURAL SITE PLAN

Sheet Number
AS1.1

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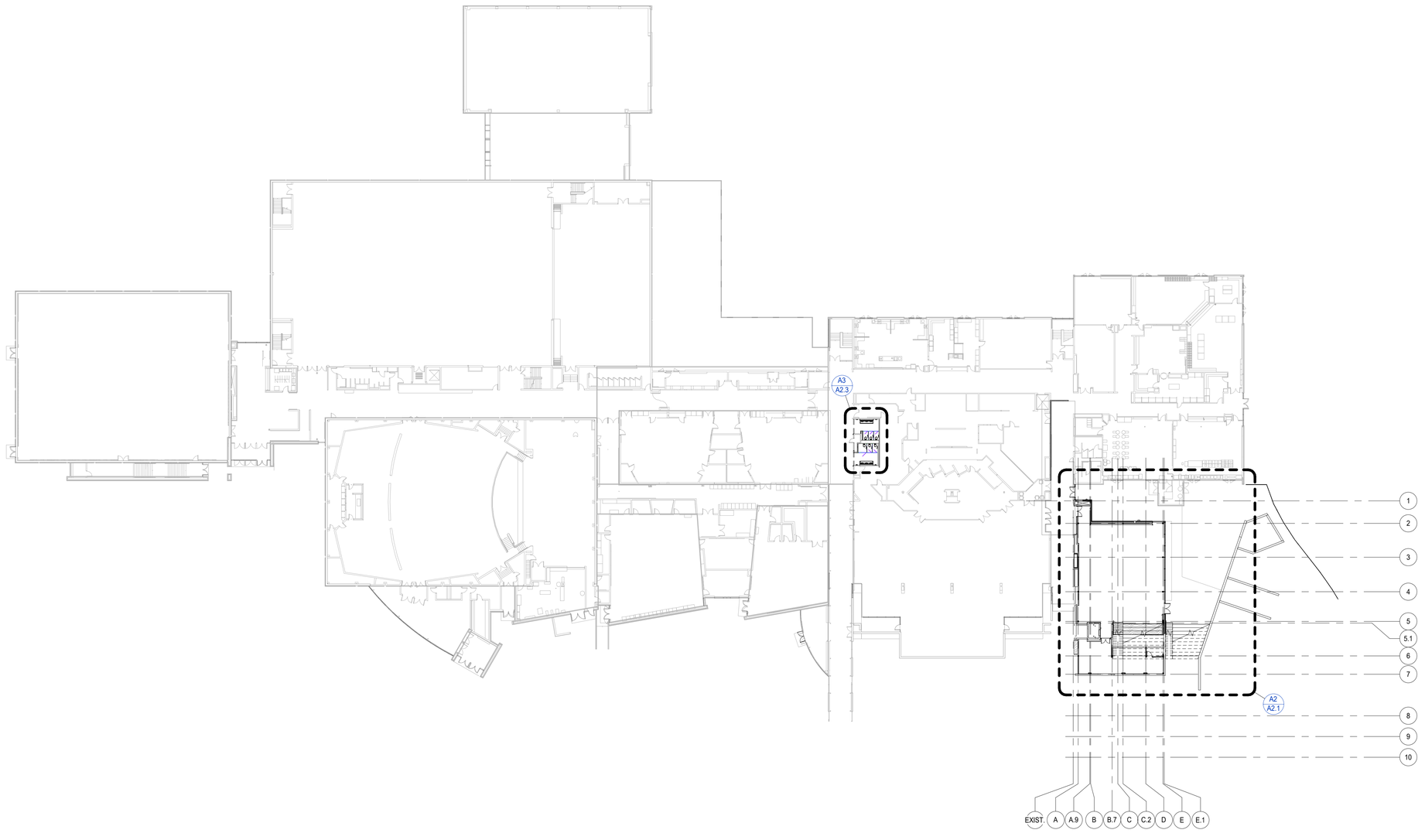
FLOOR PLAN NOTES

1. NOTES APPLY TO ALL FLOOR PLAN SHEETS.
2. ALL DIMENSIONS ARE ACTUAL AND ARE TO FACE OF STUD, FACE OF CONCRETE WALL, FACE OF CMU WALL, FACE OF FRAME, OR CENTERLINE OF COLUMN, UNLESS NOTED OTHERWISE.
3. WALL TYPES SHALL BE DESIGNATED ON FLOOR PLANS THUS, B2 SEE SHEET G0.3 FOR WALL TYPES.
4. DIMENSIONS FOR DOOR AND WINDOW OPENINGS ARE SHOWN NOMINAL. ALLOW FOR 1/4"-INCH (10) SHIM AND SEALANT OF EXTERIOR FRAMES.



A2 SECOND FLOOR PLAN
SCALE: 1/32" = 1'-0"

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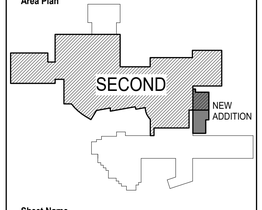
Issue Date
01/06/2022

Revision No.	Description	Date Issued

Area Plan



Sheet Name
SECOND FLOOR PLAN

Sheet Number
A1.2

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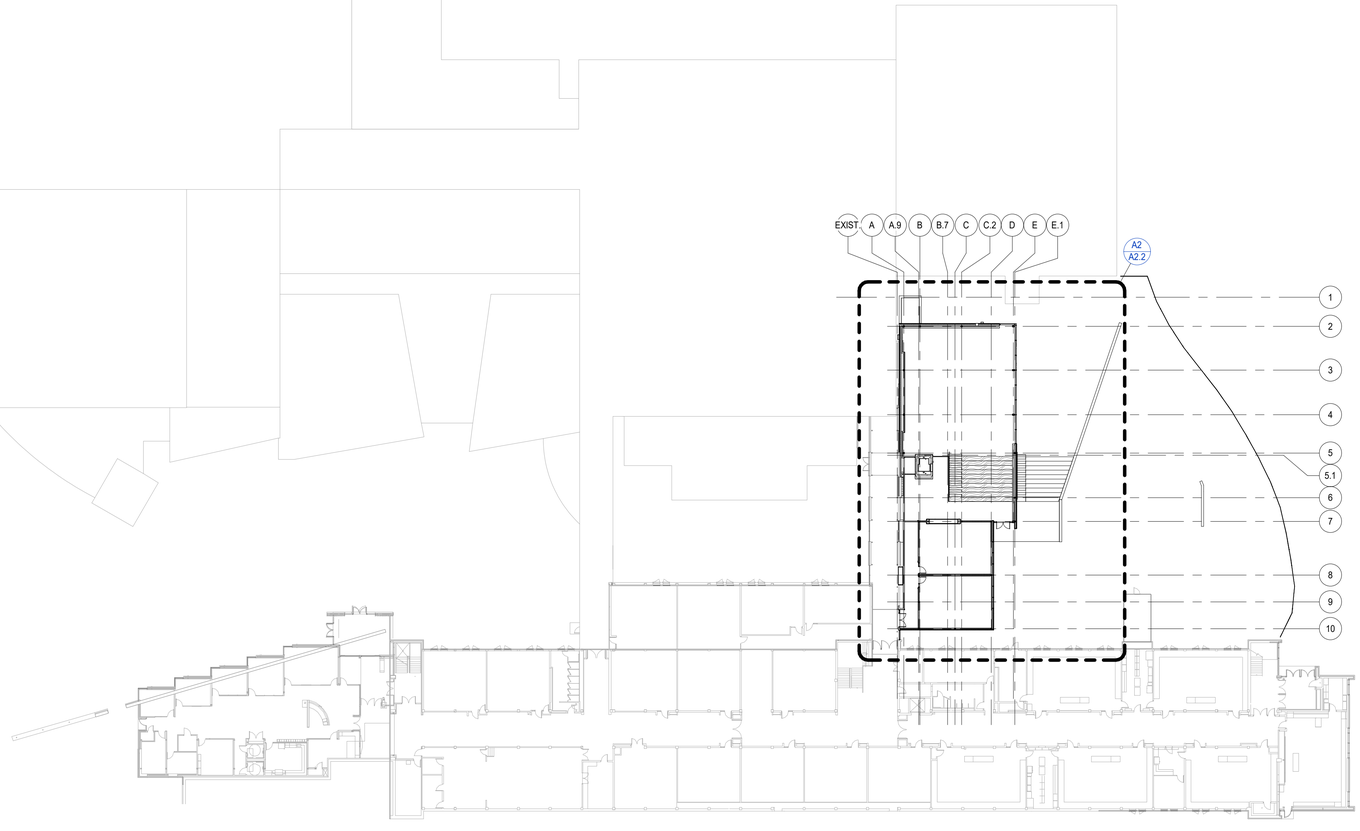
FLOOR PLAN NOTES

1. NOTES APPLY TO ALL FLOOR PLAN SHEETS.
2. ALL DIMENSIONS ARE ACTUAL AND ARE TO FACE OF STUD, FACE OF CONCRETE WALL, FACE OF CMU WALL, FACE OF FRAME, OR CENTERLINE OF COLUMN, UNLESS NOTED OTHERWISE.
3. WALL TYPES SHALL BE DESIGNATED ON FLOOR PLANS THUS, B2 SEE SHEET G0.3 FOR WALL TYPES.
4. DIMENSIONS FOR DOOR AND WINDOW OPENINGS ARE SHOWN NOMINAL. ALLOW FOR 1/4"-INCH (10) SHIM AND SEALANT OF EXTERIOR FRAMES.



A2 THIRD FLOOR PLAN
SCALE: 1/32" = 1'-0"

NORTH

incite Design Studio
architects building relationships

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Construction Manager
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KS #7083

Cert. of Authority
A-543
INCITE DESIGN STUDIO, LLC

DUANE A. CASH LICENSED 7083 1-6-2022 KANSAS ARCHITECT

EAST HIGH SCHOOL REMODEL & ADDITION

7500 MISSION ROAD
PRAIRIE VILLAGE, KS 66208

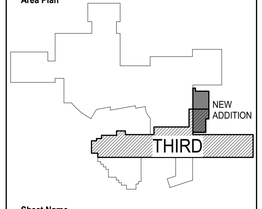
Project Phase
100% BID PACKAGE

Project Number
20-304

Issue Date
01/06/2022

Revision No.	Description	Date Issued

Area Plan



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THIRD FLOOR PLAN

Sheet Number
A1.3

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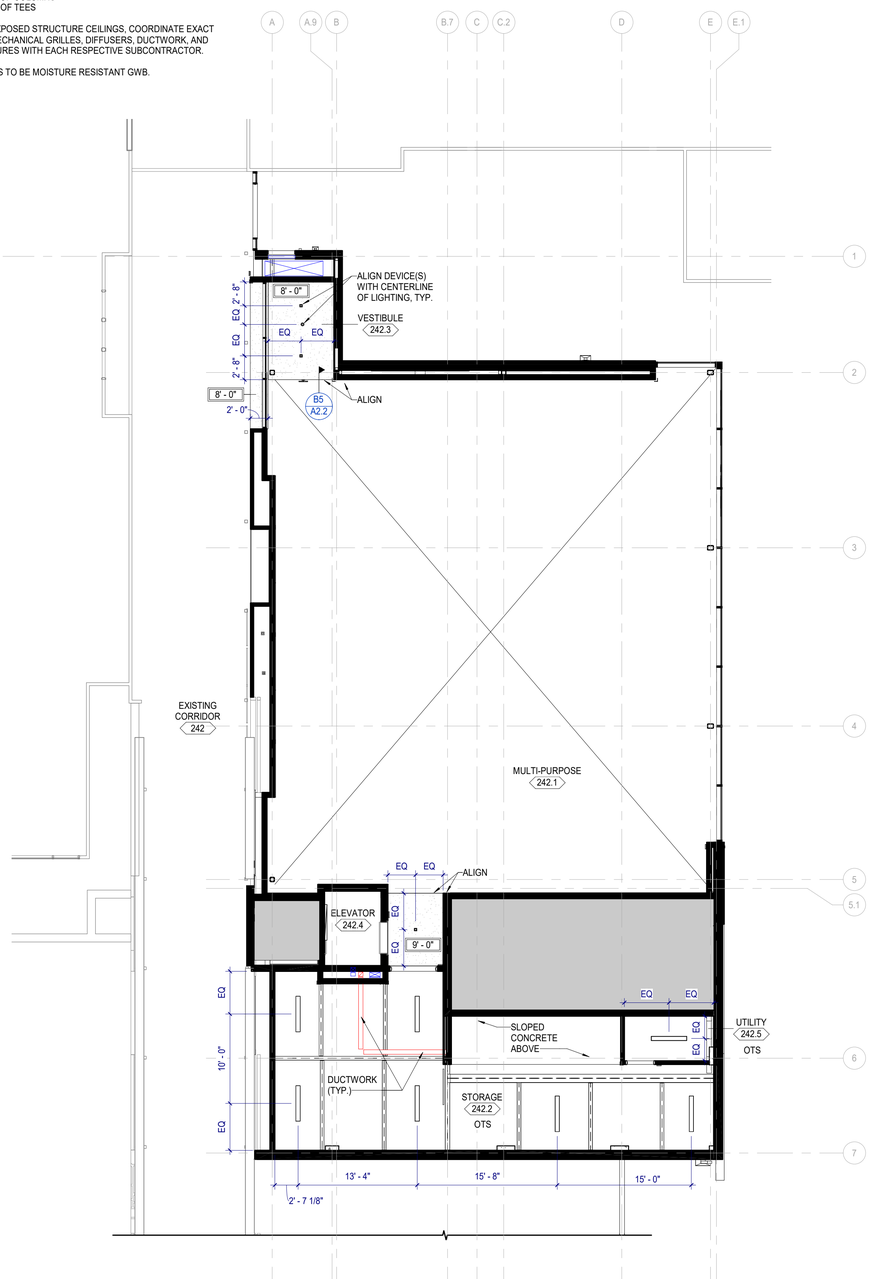
REFLECTED CEILING PLAN NOTES

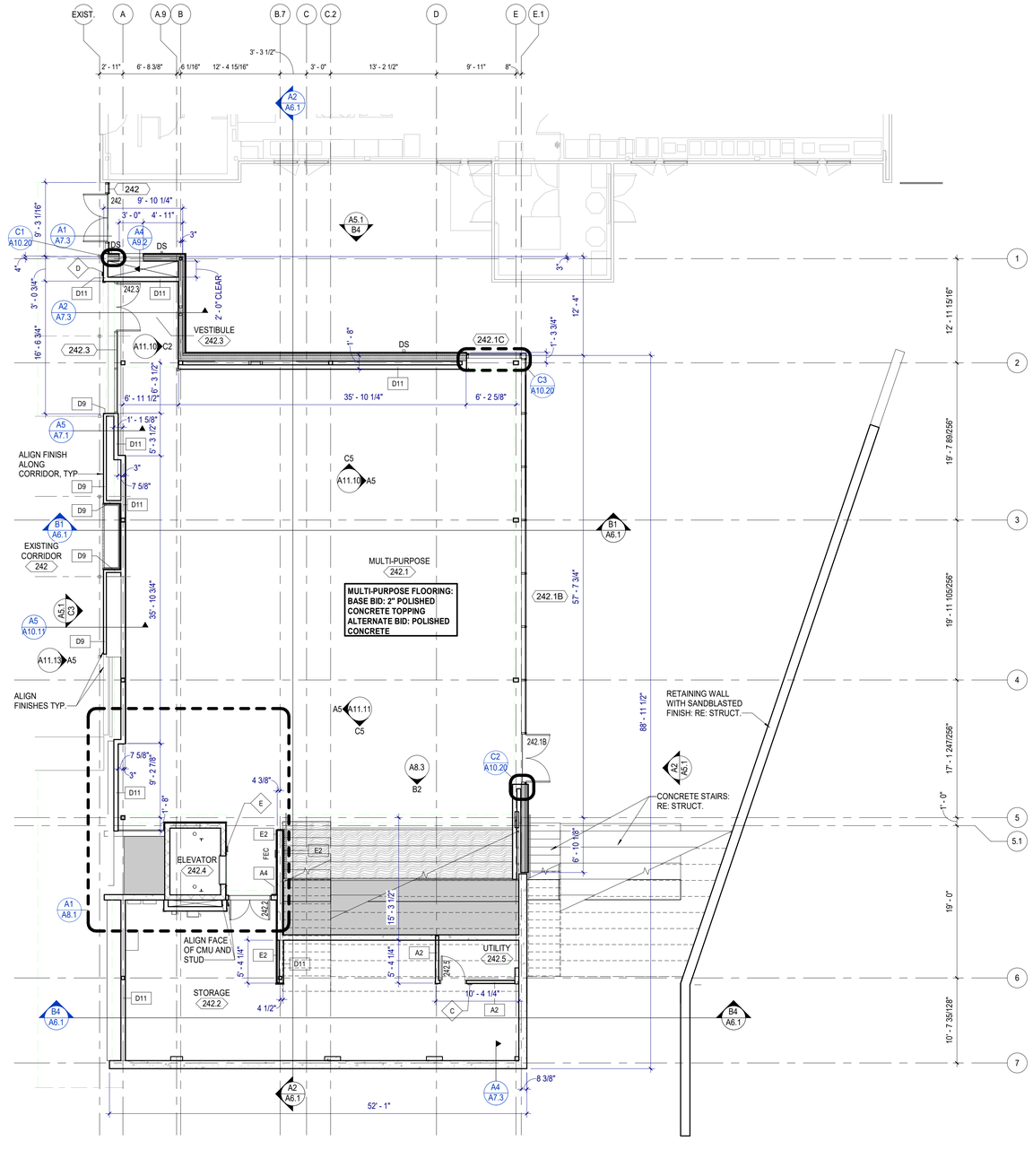
1. ALL CEILINGS SHALL BE 9'-0", UNLESS NOTED OTHERWISE (U.N.O)
2. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
3. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, GRILLES, SPRINKLER HEADS, ETC. SHALL BE CENTERED BETWEEN CEILING GRIDS, U.N.O. SPRINKLER HEADS SHALL BE WITHIN A 3" RADIUS CENTERED BETWEEN CEILING GRIDS.
4. IN SUSPENDED ACOUSTICAL CEILINGS, PROVIDE EXPOSED TEES AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, ETC.
5. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING, U.N.O.
   A. FACE OF FINISHED WALL
   B. CENTERLINE OF COLUMNS
   C. CENTERLINE OF TEES
6. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK, AND ELECTRICAL FIXTURES WITH EACH RESPECTIVE SUBCONTRACTOR.
7. ALL GWB CEILINGS TO BE MOISTURE RESISTANT GWB.

REFLECTED CEILING PLAN LEGEND

- 10' - 0" — CEILING HEIGHT
- GYPSUM BOARD
- 2' x 2' LAY-IN CEILING
- 4' x 4' LAY-IN CEILING
- 2' x 4' LAY-IN CEILING EXISTING
- STRUCTURAL FILL
- SUPPLY
- RETURN
- EXHAUST
- FIRE EXIT SIGN (CEILING MOUNTED)
- FIRE EXIT SIGN (WALL MOUNTED)
- EMERGENCY LIGHT
- CAN LIGHT
- 2' x 4' LIGHT FIXTURE
- 60" SUSPENDED LIGHT FIXTURE
- STRIP LIGHT FIXTURE
- T-BAR LIGHT FIXTURE



A4 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



A2 ENLARGED SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

NORTH

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Project Phase
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Project Number
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Issue Date
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Revision No.	Description	Date Issued

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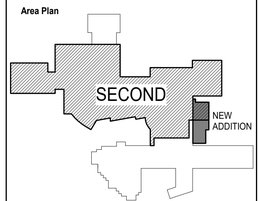

Sheet Name
ENLARGED FLOOR PLANS

Sheet Number
A2.1

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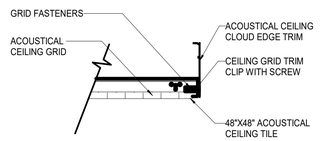
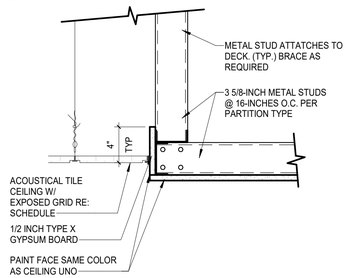
REFLECTED CEILING PLAN NOTES

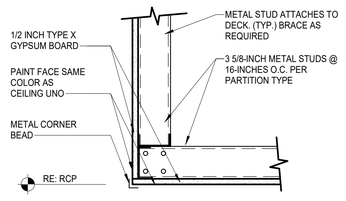
1. ALL CEILINGS SHALL BE 9'-0", UNLESS NOTED OTHERWISE (U.N.O)
2. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
3. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, GRILLES, SPRINKLER HEADS, ETC. SHALL BE CENTERED BETWEEN CEILING GRIDS, U.N.O. SPRINKLER HEADS SHALL BE WITHIN A 3" RADIUS CENTERED BETWEEN CEILING GRIDS.
4. IN SUSPENDED ACOUSTICAL CEILINGS, PROVIDE EXPOSED TEES AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, ETC.
5. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING, U.N.O.
   A. FACE OF FINISHED WALL
   B. CENTERLINE OF COLUMNS
   C. CENTERLINE OF TEES
6. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK, AND ELECTRICAL FIXTURES WITH EACH RESPECTIVE SUBCONTRACTOR.
7. ALL GWB CEILINGS TO BE MOISTURE RESISTANT GWB.



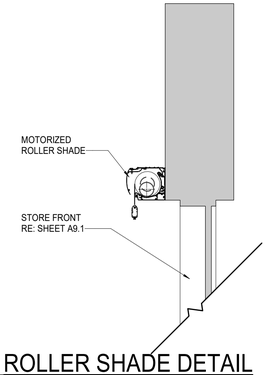
D5 TYP. ACT CEILING CLOUD TRIM
SCALE: 1 1/2" = 1'-0"



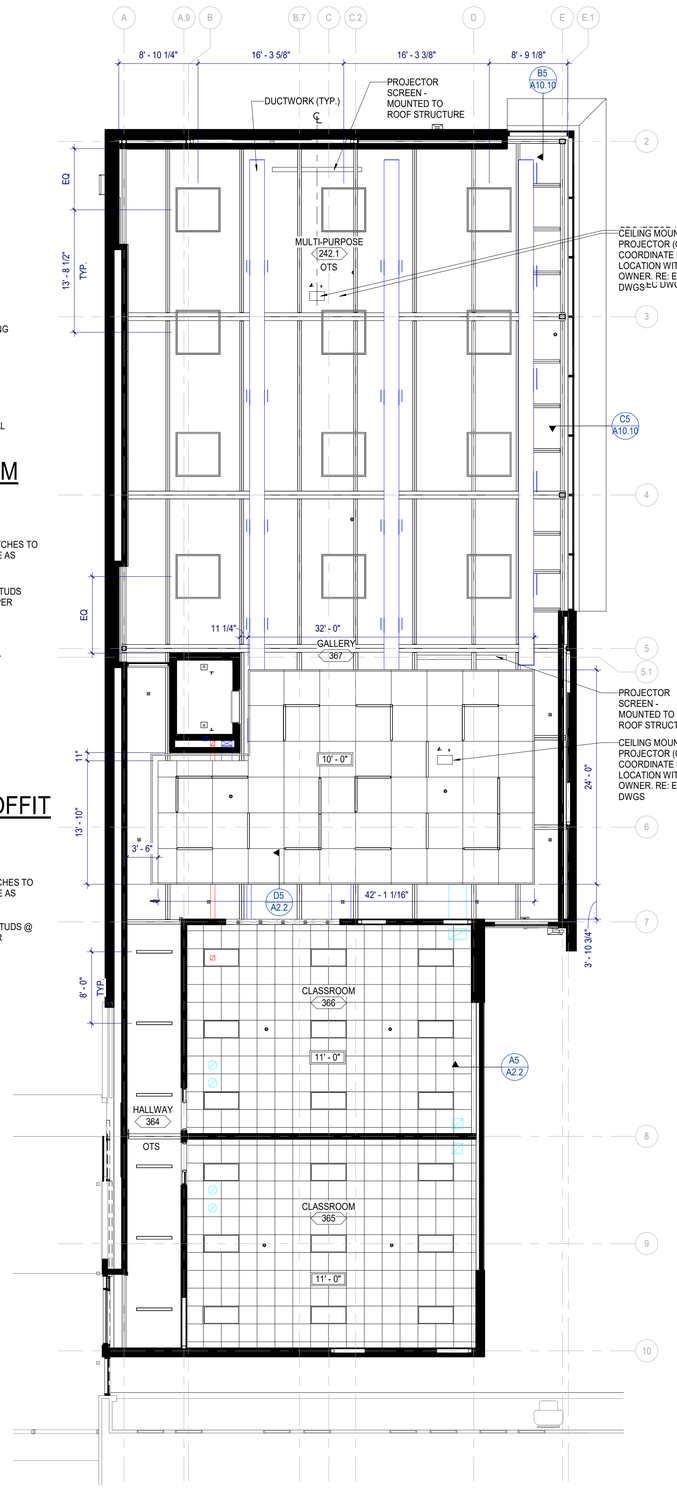
C5 TYP. BULKHEAD DTL - ACT/SOFFIT
SCALE: 1 1/2" = 1'-0"



B5 TYP. GYP. SOFFIT
SCALE: 1 1/2" = 1'-0"

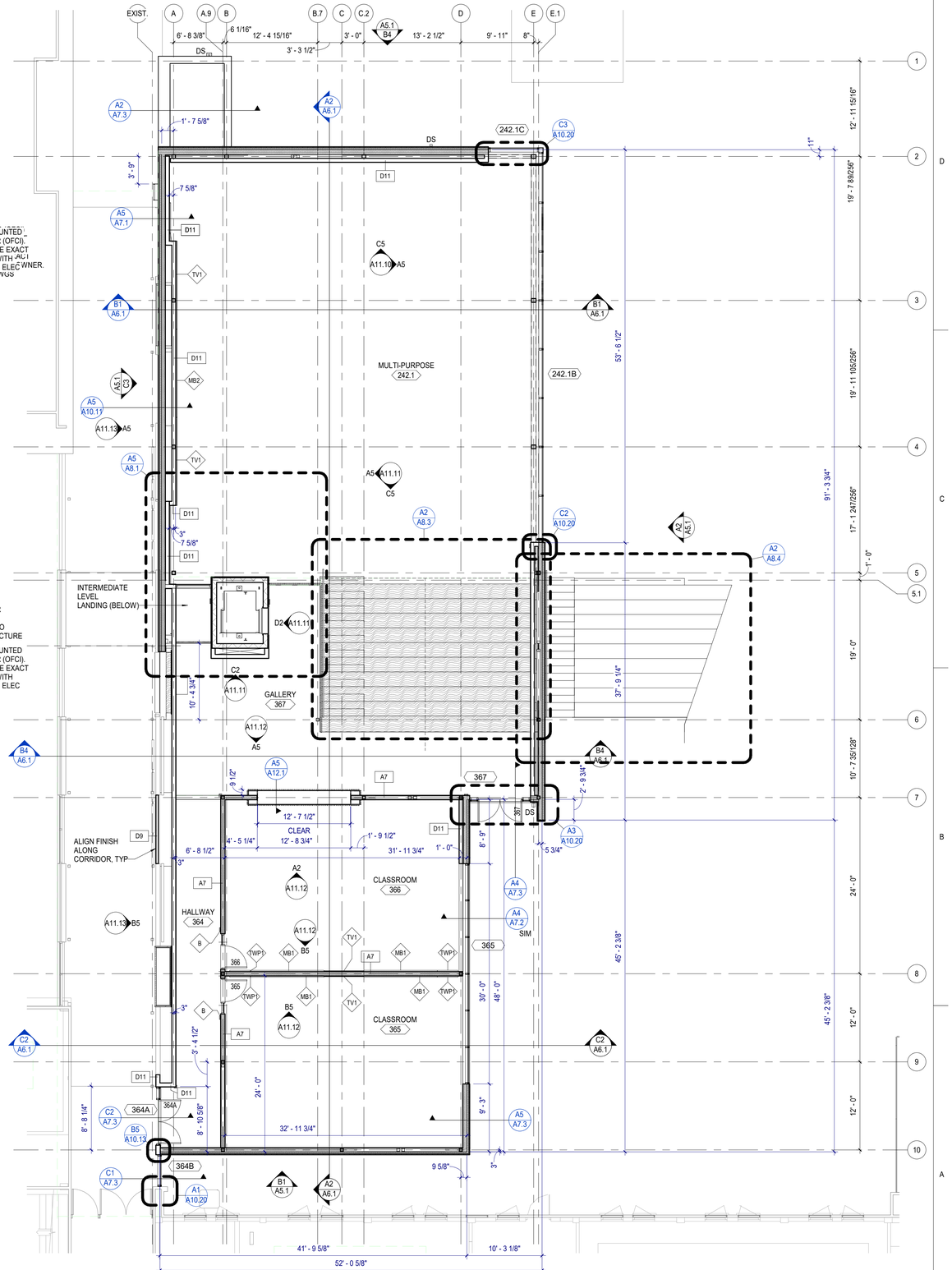


A5 ROLLER SHADE DETAIL
SCALE: 1" = 1'-0"



A4 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

NORTH



A2 ENLARGED THIRD FLOOR PLAN
SCALE: 1/8" = 1'-0"

NORTH

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INCITE DESIGN STUDIO
7200 WEST 75TH STREET
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DUANE CASH

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Cert. of Authority
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INCITE DESIGN STUDIO, LLC

DUANE A. CASH LICENSED 7083 1-6-2022 KANSAS ARCHITECT

EAST HIGH SCHOOL REMODEL & ADDITION

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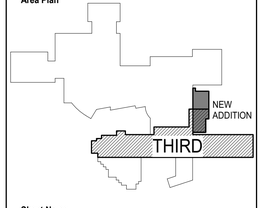

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ENLARGED FLOOR PLANS

Sheet Number
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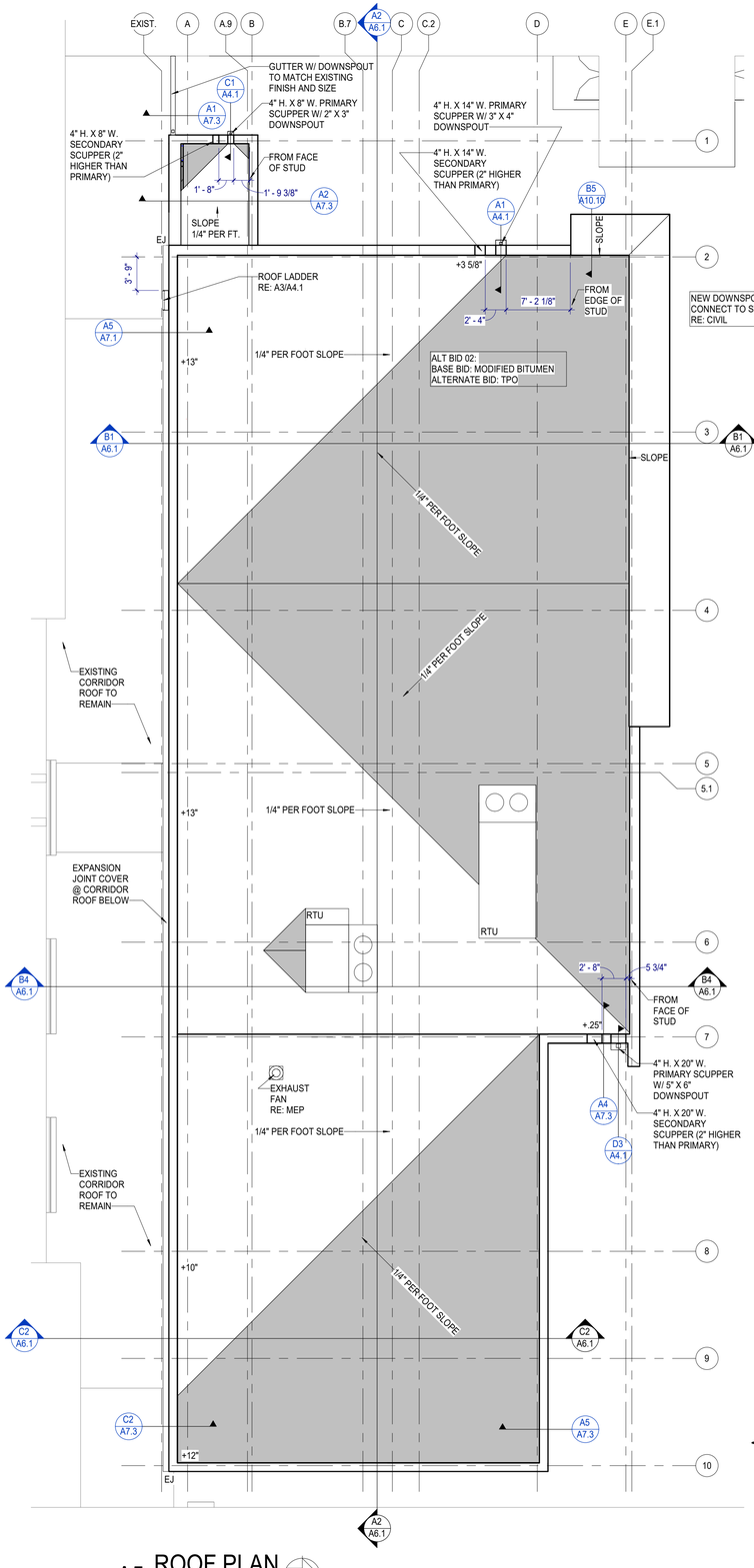
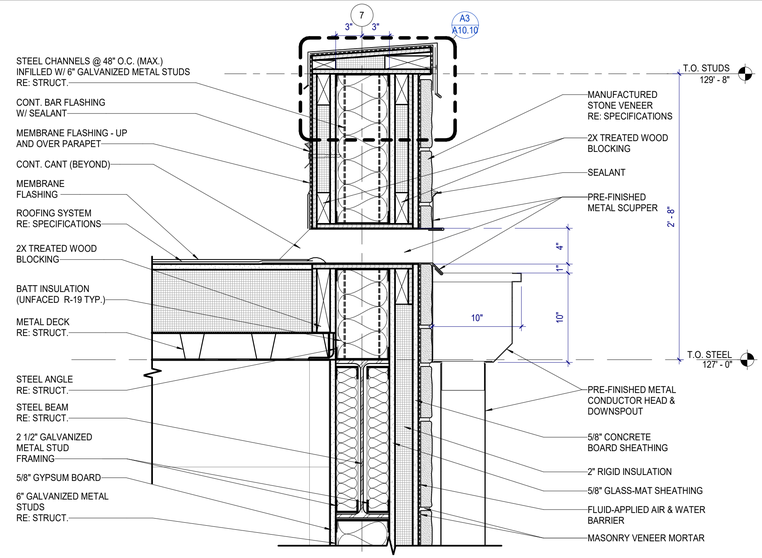
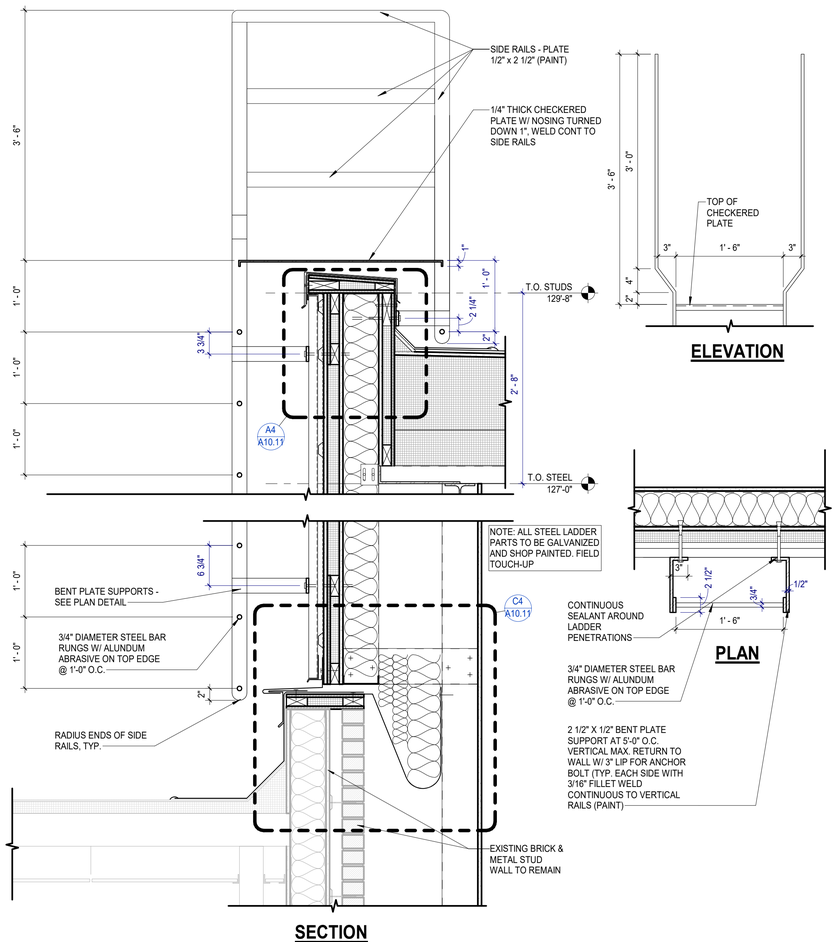


A5 ROOF PLAN
SCALE: 1/8" = 1'-0"



D3 SECTION DETAIL @ SCUPPER W/ STONE VENEER
SCALE: 1 1/2" = 1'-0"



SECTION **ELEVATION** **PLAN**

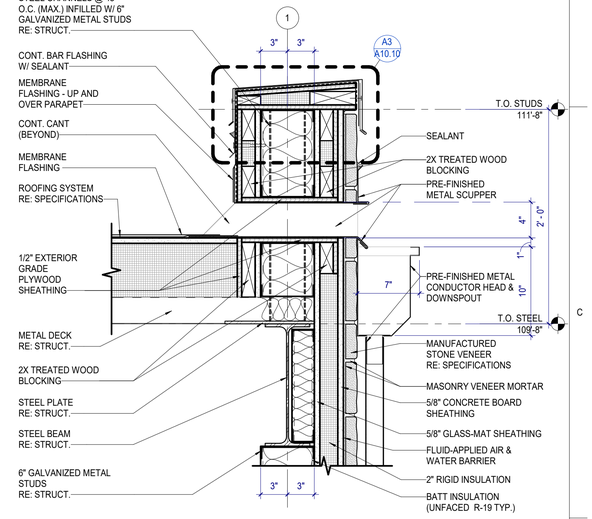
A3 ROOF DETAIL - LADDER @ METAL PANEL
SCALE: 1" = 1'-0"

ROOF PLAN NOTES

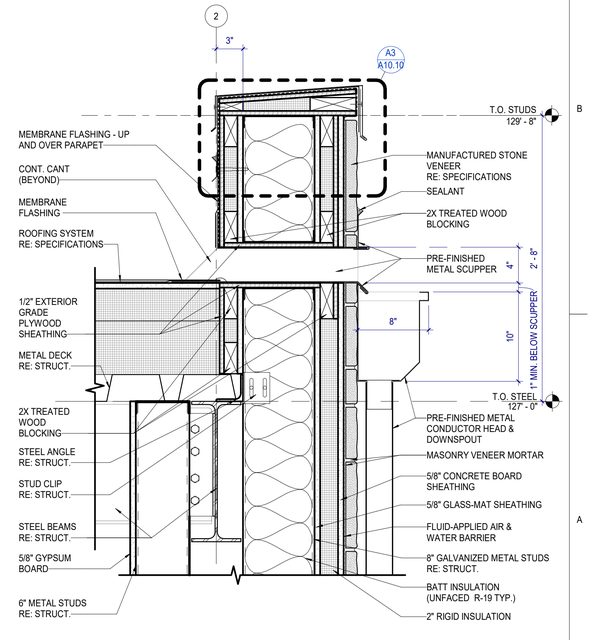
1. SHADED AREAS INDICATE TAPERED INSULATION. TAPERED INSULATION SHALL PROVIDE A MINIMUM OF 1/4" PER FOOT OF SLOPE TO ROOF DRAINS, UNLESS NOTED OTHERWISE.
2. PROVIDE TAPERED INSULATION ROOF SADDLES AT ROOF CURBS AS REQUIRED TO PROVIDE DRAINAGE AROUND CURBS.
3. COORDINATE THE SIZE AND LOCATION OF ROOF PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS SHEET.

ROOFING LEGEND

SLOPE — MEMBRANE ROOFING OVER TAPERED AND RIGID ROOF INSULATION - SLOPE 1/4" / 1FT IN DIRECTION INDICATED



C1 SECTION DETAIL @ SCUPPER W/ STONE VENEER
SCALE: 1 1/2" = 1'-0"



A1 SECTION DETAIL @ SCUPPER W/ STONE VENEER
SCALE: 1 1/2" = 1'-0"

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INCITE DESIGN STUDIO, LLC

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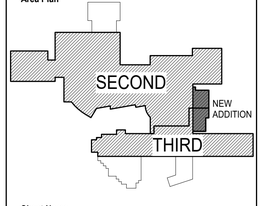

Sheet Name
ROOF PLAN & DETAILS

Sheet Number
A4.1

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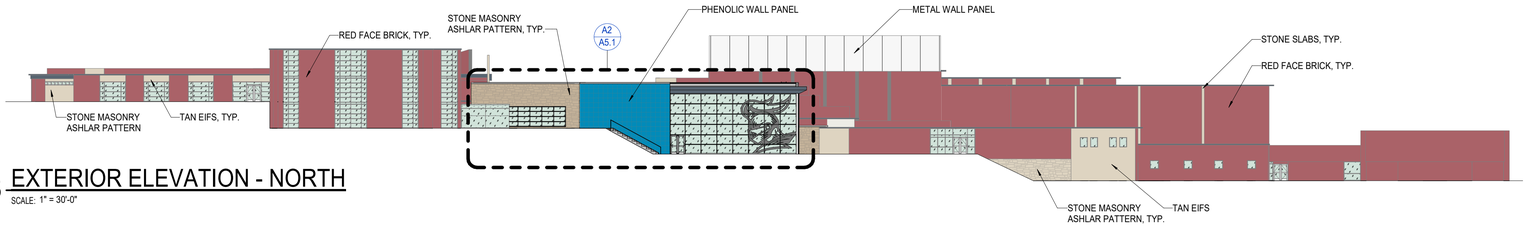
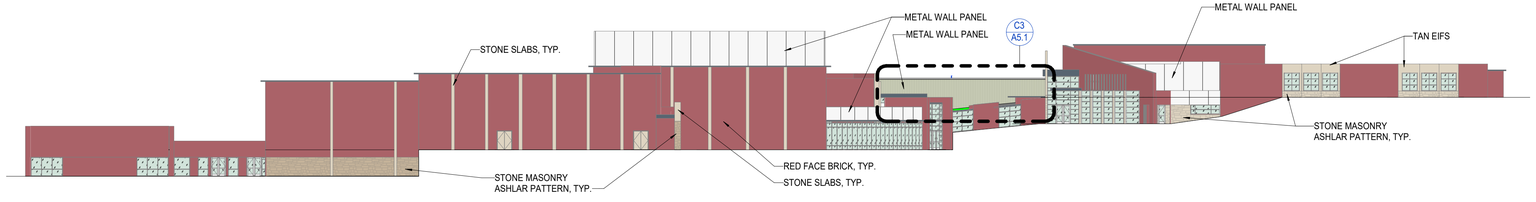


D5 EXTERIOR ELEVATION - NORTH

SCALE: 1" = 30'-0"

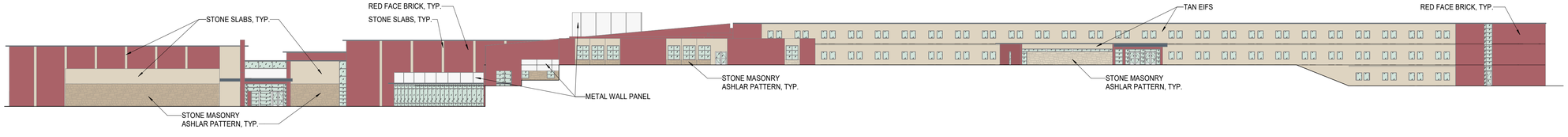
C5 EXTERIOR ELEVATION - WEST

SCALE: 1" = 30'-0"



B5 EXTERIOR ELEVATION - SOUTH

SCALE: 1" = 30'-0"



A5 EXTERIOR ELEVATION - EAST

SCALE: 1" = 30'-0"

Architect
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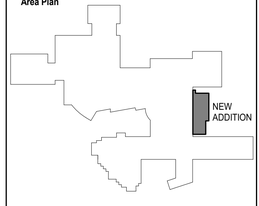

Sheet Name
EXTERIOR ELEVATIONS

Sheet Number
A5.0A

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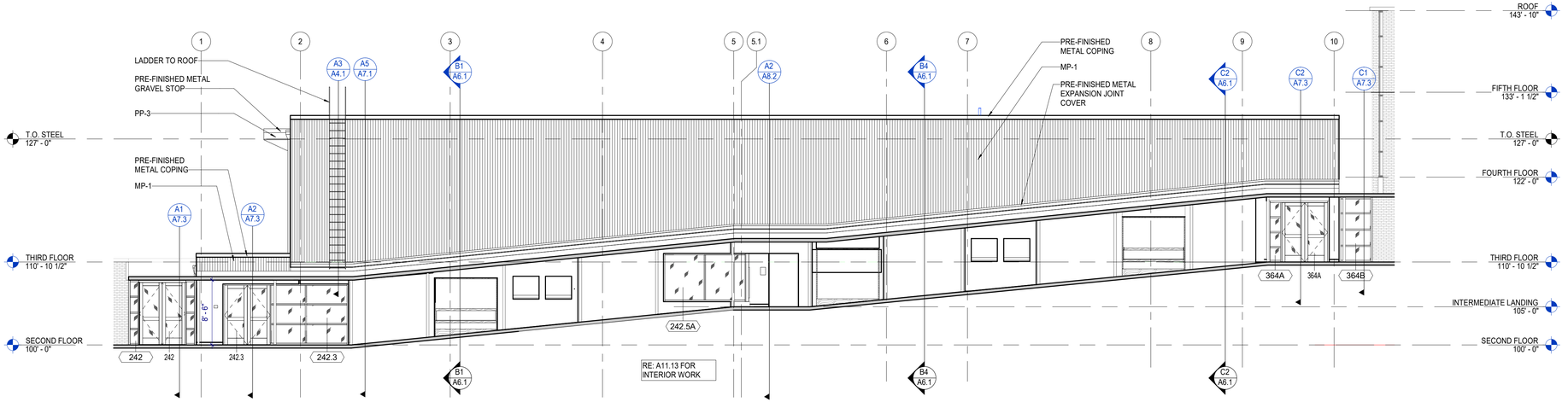
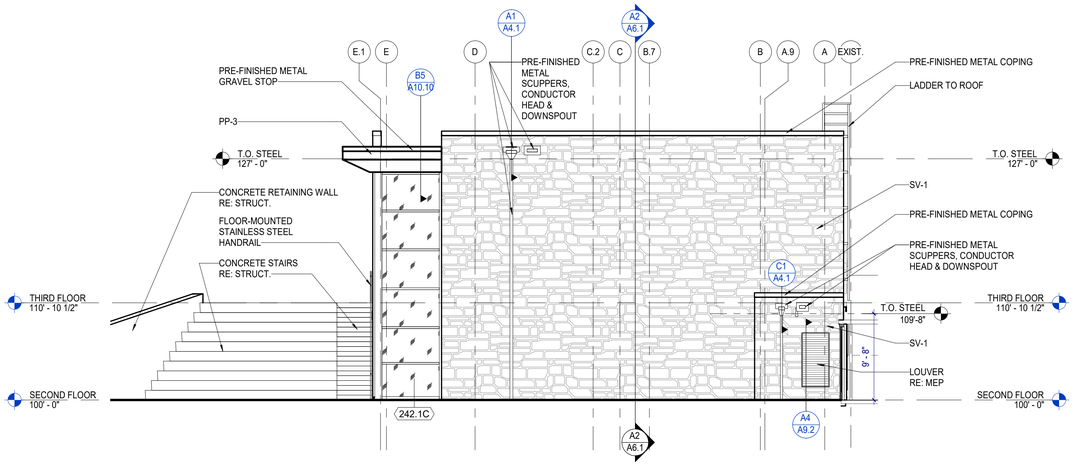


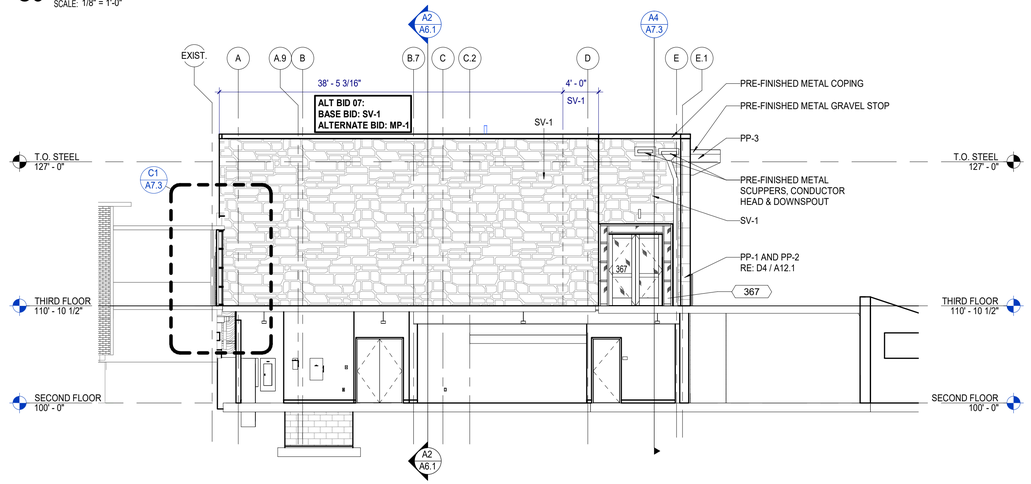
C3 EXTERIOR ELEVATION - SOUTH

SCALE: 1/8" = 1'-0"



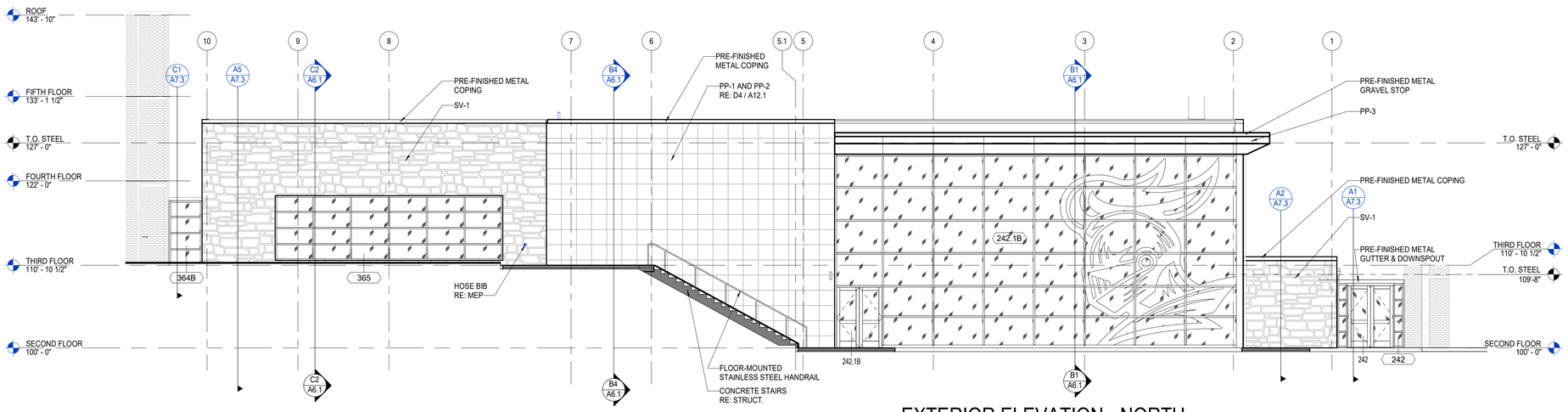
B4 EXTERIOR ELEVATION - WEST

SCALE: 1/8" = 1'-0"



B1 EXTERIOR ELEVATION - EAST

SCALE: 1/8" = 1'-0"



A2 EXTERIOR ELEVATION - NORTH

SCALE: 1/8" = 1'-0"

EXTERIOR ELEVATION MATERIALS

- PENOLIC WALL PANEL (PP-1 AND PP-2)
  COLOR: LIGHT BLUE AND SKY BLUE (50/50)
  MANUFACTURER: FIBERESIN INDUSTRIES
- PENOLIC WALL PANEL (PP-3)
  COLOR: TO MATCH CURTAIN WALL SYSTEM
  MANUFACTURER: FIBERESIN INDUSTRIES
- STONE VENEER (SV-1)
  COLOR: CHESTNUT (25) AND SILVERDALE (75)
  PATTERN: RANDOM ASHLAR
  MANUFACTURER: US STONE INDUSTRIES
- METAL WALL PANEL (MP-1)
  COLOR: ALMOND
  MANUFACTURER: BERRIDGE
- GLAZING

ELEVATION NOTES:

A. WINDOW SYSTEM COLOR TO BE CLEAR ANODIZED ALUMINUM
B. FLASHING COLOR AT WINDOW SYSTEM TO BE: MATCH ALSF SYSTEM
C. COPING COLOR TO BE: MATCH ADJACENT MATERIAL
D. SCUPPER, CONDUCTOR HEAD, DOWNSPOUT COLOR TO BE: MATCH ADJACENT MATERIAL
E. LOUVER COLOR TO BE: MATCH ADJACENT MATERIAL
F. ROOF LADDER COLOR TO BE: MATCH ADJACENT MATERIAL
G. EXPANSION JOINT COVER COLOR TO BE: MATCH ADJACENT MATERIAL

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Licensed Architect
DUANE CASH

License
KS #7083

Cert. of Authority
A-543
INCITE DESIGN STUDIO, LLC

DUANE A. CASH LICENSED 7083 1-6-2022 KANSAS ARCHITECT

EAST HIGH SCHOOL REMODEL & ADDITION

7500 MISSION ROAD
PRAIRIE VILLAGE, KS 66208

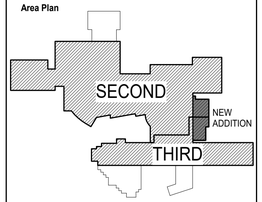
Project Phase

100% BID PACKAGE

Project Number
20-304
Issue Date
01/06/2022

Revision No.	Description	Date Issued

Area Plan



Sheet Name
EXTERIOR ELEVATIONS

Sheet Number
A5.1

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STORMWATER MANAGEMENT STUDY

FOR

Shawnee Mission East High School Remodel & Addition

Prairie Village, KS
Johnson County

PREPARED BY

BHC
7101 College Boulevard, Suite 400
Overland Park, KS 66210
(913)663-1900
BHC # 032410

PREPARED FOR

Incite Design Studio
7200 W 75th Street
Overland Park, KS 66204
913-379-1919

January 06, 2022

CIVIL ENGINEERING / SURVEYING / UTILITIES

CERTIFICATION

The storm drainage report and storm drainage construction drawings, including site grading, were prepared under my direct supervision, and to the best of my professional knowledge conform with the City of Prairie Village storm drainage design criteria and the Public Works Design and Construction Manual.

Eric Byrd, PE

TABLE OF CONTENTS

Certification ii
Table of Contents 3
Appendices 4
1.0 INTRODUCTION 5
2.0 STORMWATER MANAGEMENT 6
2.1 Existing Conditions 6
2.2 Proposed Conditions 6
2.3 Stormwater Management 6
2.4 Stormwater Quality 7
3.0 PERMIT REQUIREMENTS 7
3.1 Corps of Engineers (COE) 7
3.2 Federal Emergency Management Agency (FEMA) 7
3.3 Kansas Division of Water Resources (KDWR) 8
3.4 Kansas Department of Health & Environment (KDHE) 8
4.0 CONCLUSION 8

APPENDICES

Appendix A – Reference Documents

A1. Existing Site Aerials
A2. FEMA Firmette

Appendix B – Stormwater Management

B1. Site Plans
B2. PondPack Output

Appendix C – Stormwater Quality

C1. BMP Worksheets

1.0 INTRODUCTION

This stormwater management study supports the proposed construction of a building addition and site improvements at Shawnee Mission East High School. The study discusses the various stormwater management goals of the project and proposes stormwater quantity and quality control measures as needed. Refer to Appendix A for aerial photographs for the existing school site.

The proposed addition will be located on the north side of the school. The existing site in this location includes green space, landscaping, and several structures. The site is bound by residential zoning on all sides, except for a small commercial property to the northeast.

The projects consist of a 7,200 square foot building addition and approximately 0.6 Acre of disturbed area within the overall site. Refer to Appendix B for a general plan.

Analysis of the storm drainage systems followed all applicable City of Prairie Village Stormwater Regulations and analyzed the impact to the surrounding areas due to the improvements. The standards given by Chapter 14, Article 2 Stormwater Management of City Code were followed for the analysis. An evaluation was done both for stormwater quantity generated as well as stormwater quality following the MARC BMP Manual.

2.0 STORMWATER MANAGEMENT

2.1 Existing Conditions

The existing site predominantly drains to the west, into a grated storm structure on the west side of the area that will be disturbed. This continues to be conveyed by enclosed storm sewer that carries water under the existing building to the west.

2.2 Proposed Conditions

The proposed building addition is located on the north side of the building. It is in existing green space with some landscaping and several structures. The proposed building addition has an approximately 7,200 square foot footprint. The roof drainage from the proposed building addition will be piped to a stormwater treatment train featuring native vegetation and an extended wet detention basin. This basin will discharge to a 12" pipe connected to an existing storm structure that is located between the proposed basin and the existing building. All drainage patterns will be maintained.

2.3 Stormwater Management

There is currently detention provided on the site for a previous addition just northeast of this current project area. Only the area disturbed by this project was evaluated related to runoff rates generated for the proposed project. A CN of 80 was used for the existing condition and a CN of 83 was used for the proposed condition. The CN values were used, along with an SCS Type 2 twenty-four-hour rainfall distribution, to determine the peak flow rates generated for the 1, 10, 25, and 100-year storm events. PondPack software was used to determine the runoff rates. Refer to Appendix B for output from PondPack for the generated runoff rates. The following table shows the peak runoff rate generated in the existing and proposed conditions for the area of interest.

Shawnee Mission East Addition Peak Flow Rates (cfs)

	1-Year	10-Year	25-Year	100-Year
Existing	1.06	2.86	3.67	4.97
Proposed	1.23	3.12	3.93	5.24

A proposed Extended Wet Detention Pond will be constructed north of the addition to restrict proposed release rates to existing conditions. The following table shows release rate information for the proposed pond, along with water surface elevations, and storage volumes. Refer to Appendix B for output from PondPack software for the pond routing.

Pond Results

	Existing Release Rate (cfs)	Peak Release Rate (cfs)	Max W.S.E.	Peak Storage (ac-ft)
1-Year	1.06	1.25	1015.89	0.007
10-Year	2.86	3.11	1016.25	0.010
25-Year	3.67	3.90	1016.42	0.011
100-Year	4.97	4.99	1016.79	0.014

2.4 Stormwater Quality

The project was also evaluated from a stormwater quality perspective, following the procedure outlined in the MARC BMP manual. Worksheet 1A was utilized for a developed site to determine the required total value rating needed for the project. This worksheet can be found in Appendix C. It was determined that a total value rating of 3.13 is required for the site. This will be met by constructing an Extended Wet Detention Pond and utilizing native vegetation. Worksheet 2 showing the provided total value rating meeting the required is included in Appendix C.

3.0 PERMIT REQUIREMENTS

The following sections provide a discussion of the federal and state stormwater permitting that may be required for the proposed development. Supporting maps are in Appendix A.

3.1 Corps of Engineers (COE)

A Jurisdictional Determination was not required by Staff or completed as part of the Stormwater Management Study for this project, however it is believed that there are no “Waters of the U.S.” within the areas proposed for development. Since the project does not impact wetlands or waters of the US, no permits are necessary from the Corp of Engineers.

3.2 Federal Emergency Management Agency (FEMA)

The sites are not located within any Special Flood Hazard Areas (SFHA) per FEMA FIRM Maps 20091C0039G; Effective Date of August 03, 2009. No Letters of Map Amendment or Revisions are being proposed.

3.3 Kansas Division of Water Resources (KDWR)

The project site is not within the 1% chance exceedance floodplain and the proposed improvements will not be located within the jurisdictional limits of a creek channel, therefore, no permits are required from the Kansas Department of Agriculture, Division of Water Resources.

3.4 Kansas Department of Health & Environment (KDHE)

Since less than 1-acre will be disturbed, an NOI and a Stormwater Pollution Prevention Plan (SWPPP) will not be prepared for this project.

4.0 CONCLUSION

The proposed addition is about 7,200 square feet and will include site features like concrete sidewalks and landscaping. The proposed site will continue to maintain existing drainage patterns as existed previously. This project will include construction of a small extended wet detention basin that will reduce the proposed release rates to around existing rates. Native vegetation and the proposed pond will also be used to meet the required stormwater quality requirements.

This project does not impact stream corridors, waters of the U.S., wetlands, or FEMA floodplains. No permits will be required from the Corps of Engineers or FEMA

APPENDIX A – REFERENCE DOCUMENTS

Shawnee Mission East Aerial

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures.** Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures in this jurisdiction.

The **projection** used in the preparation of this map was Kansas State Plane North Zone (FIPS zone 1501). The **horizontal datum** was NAD 83, GRS 80 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum.** For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

Spatial Reference System Division
National Geodetic Survey, NOAA
Silver Spring Metro Center
1315 East-West Highway
Silver Spring, Maryland 20910
(301) 713-3191

To obtain current elevation, description, and/or location information about the **bench marks** shown on this map, please contact the Automated Information Mapping System (AIMS) at **(913) 715 -1600**, or visit their website at http://aims.jocogov.org/.

Base map information shown on this FIRM was provided for Johnson County by Analytical Surveys, Inc. The vector data was derived from Aerial Photography, dated 1998-2000 and captured at a resolution of .5 feet.

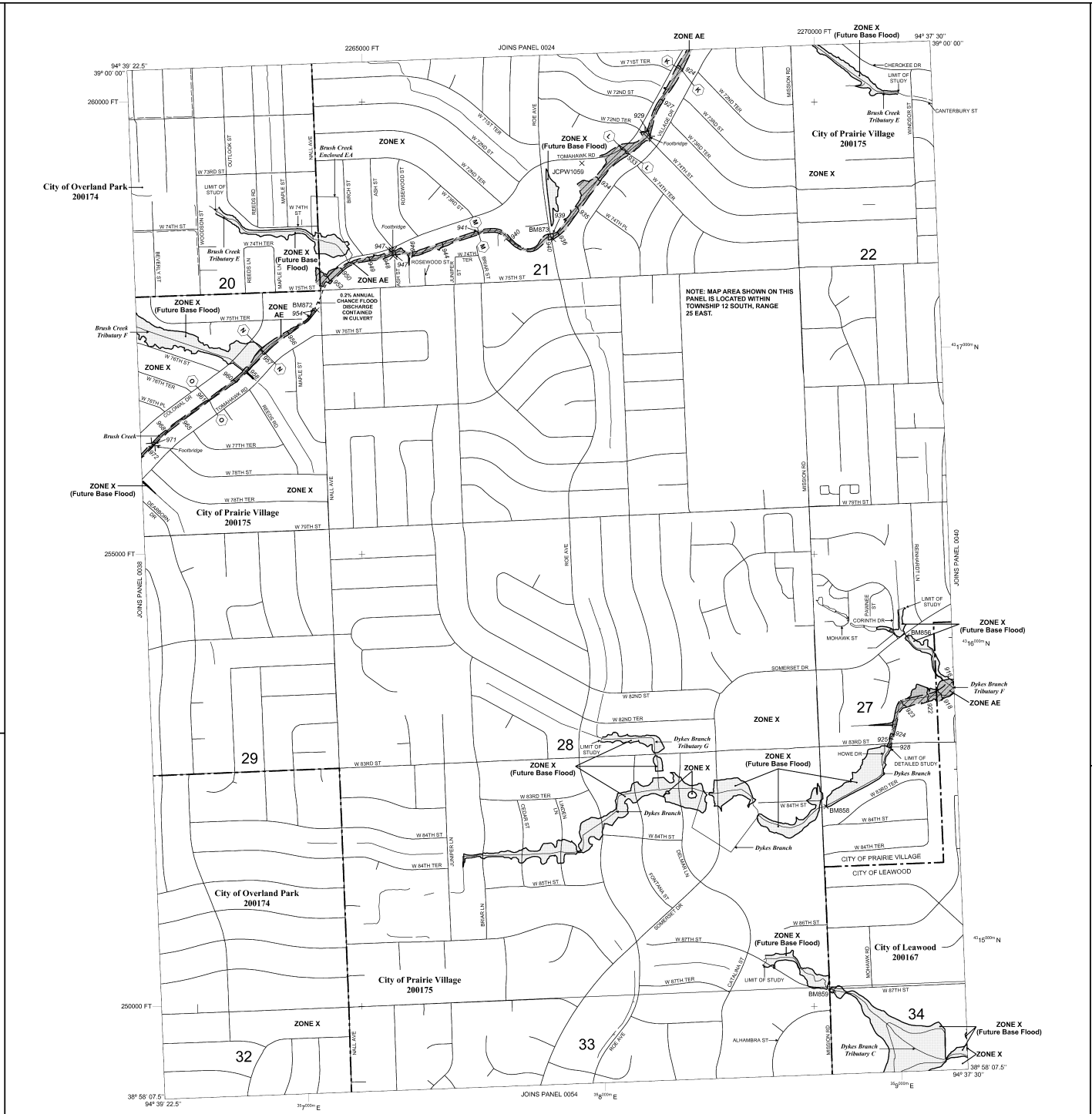
This map reflects more detailed up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and their website at http:// www.msc.fema.gov .

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1- 877- FEMA MAP** (1-877-336-2627) or visit the FEMA website at http:// www.fema.gov.


ZONE AE
ZONE X (Future Base Flood)
ZONE X
2270000 FT
2265000 FT
260000 FT
255000 FT
250000 FT
94° 39' 22.5"
39° 00' 00"
94° 37' 30"
38° 58' 07.5"
JOINS PANEL 0024
JOINS PANEL 0038
JOINS PANEL 0040
JOINS PANEL 0054
City of Overland Park 200174
City of Prairie Village 200175
City of Leawood 200167
CITY OF PRAIRIE VILLAGE
CITY OF LEAWOOD
Brush Creek Enclosed EA
Brush Creek Tributary E
Brush Creek Tributary F
Brush Creek
Dykes Branch
Dykes Branch Tributary F
Dykes Branch Tributary G
Dykes Branch Tributary C
Footbridge
Footbridge
TOMAHAWK RD
JCPW1059
BM872
BM873
BM858
BM859
0.2% ANNUAL CHANCE FLOOD DISCHARGE CONTAINED IN CULVERT
NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 12 SOUTH, RANGE 25 EAST.
LIMIT OF STUDY
LIMIT OF DETAILED STUDY
CHEROKEE DR
CANTERBURY ST
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W 74TH ST
W 74TH TER
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W 75TH TER
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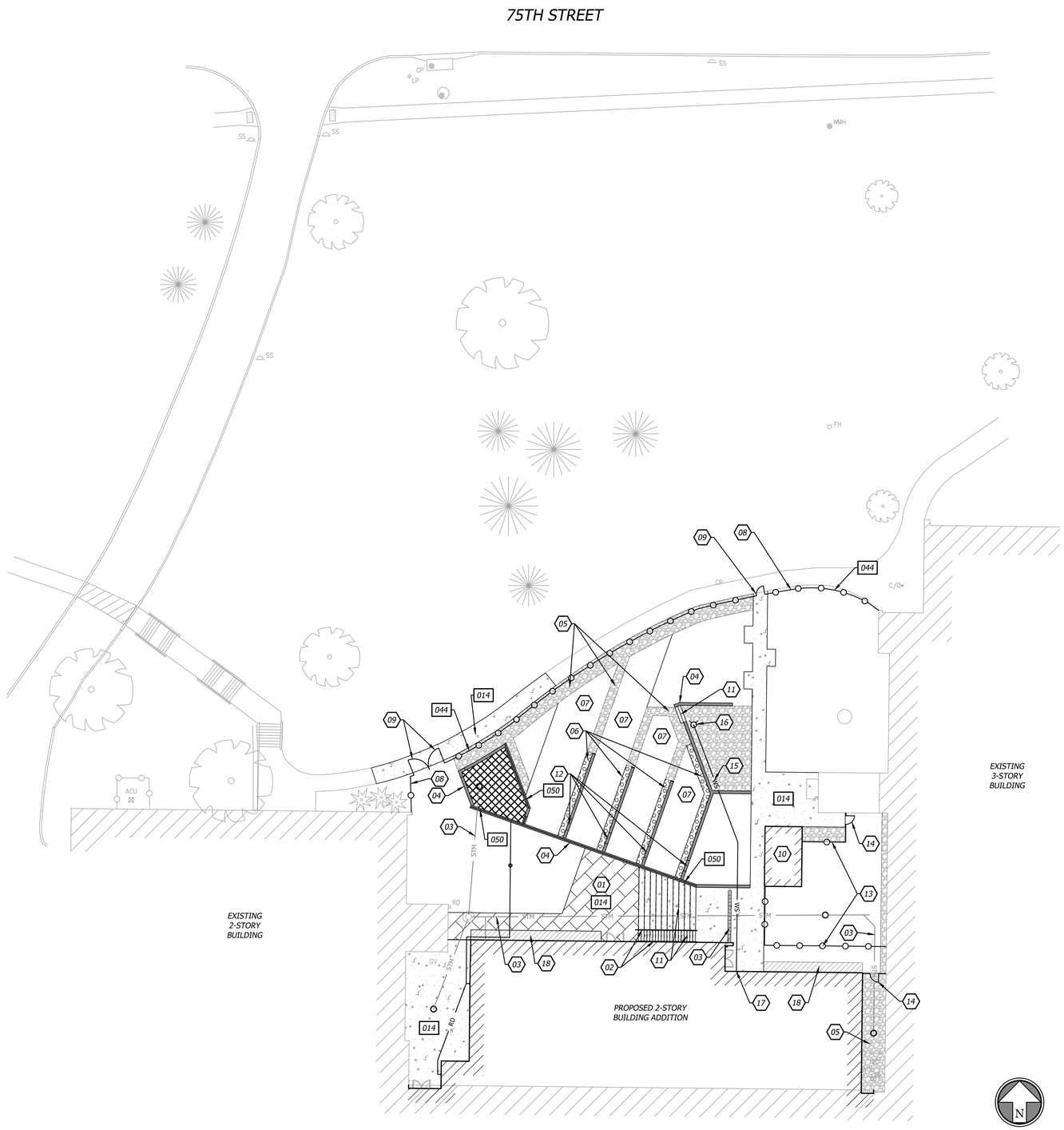
APPENDIX B – STORMWATER MANAGEMENT



SITE DATA

SITE		
DISTURBED AREA:	*0.60*	*AC*
	25,674	*SF*
IMPERVIOUS AREA:	*.25*	*AC*
BUILDING		
BUILDING ADDITION FOOTPRINT:	*7,200*	*SF*

ZONING

R-1A (SINGLE FAMILY RESIDENTIAL)

00 CONSTRUCTION NOTES

01 *STAINED CONCRETE SIDEWALK (ALTERNATE FOR PERVIOUS PAVERS); RE: LANDSCAPE PLANS*
02 *HANDRAILS; RE: ARCHITECTURAL PLANS*
03 *PROPOSED STORM SYSTEM; REFER TO SHEET C500*
04 *CAST IN PLACE CONCRETE RETAINING WALL (TYP); RE: STRUCTURAL PLANS*
05 *GRAVEL PATH; RE: LANDSCAPE PLANS*
06 *RIPRAP FOR WEIR WALLS; RE: LANDSCAPE PLANS*
07 *NATIVE VEGETATION; RE: LANDSCAPE PLANS*
08 *6' TALL BLACK VINYL COATED CHAIN LINK FENCE*
09 *6' TALL BY 4' WIDE BLACK VINYL COATED CHAIN LINK GATE*
10 *PROPOSED STORAGE SHED; RE: ARCHITECTURAL PLANS*
11 *CONCRETE STAIRS; RE: STRUCTURAL PLANS*
12 *CONCRETE WEIR; RE: STRUCTURAL PLANS*
13 *4' TALL CHAIN LINK FENCE*
14 *4' TALL BY 4' WIDE CHAIN LINK FENCE GATE*
15 *INSTALL 3/4" PVC WATER LINE WITH MINIMUM DEPTH OF COVER 42".*
16 *INSTALL YARD HYDRANT; RE: LANDSCAPE PLANS.*
17 *CONNECT TO BUILDING PLUMBING; RE: PLUMBING PLANS*
18 *LANDSCAPE MULCH; RE: LANDSCAPE PLANS*

000 DETAILS

SEE CONSTRUCTION DETAILS - SHEETS C600

014 *CONCRETE SIDEWALK*
044 *CHAIN LINK FENCE*
050 *SIDE-MOUNTED GUARDRAIL*

SITE LEGEND

- *PROPOSED BUILDING*
- *EXISTING BUILDING*
- *CONCRETE SIDEWALK*
- *RETAINING WALL*
- *EXTENDED WET DETENTION POND*
- *STAMPED CONCRETE*
- *GRAVEL PATH*
- *RIPRAP*

N

GRAPHIC SCALE
20 0 20

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EAST HIGH SCHOOL REMODEL & ADDITION

7500 MISSION ROAD
PRAIRIE VILLAGE, KS 66208

Project Phase
100% BID PACKAGE

Project Number
20-304

Issue Date
01/06/2022

Revision No.	Description	Date Issued

Area Plan

Sheet Name
SITE PLAN

Sheet Number
C100

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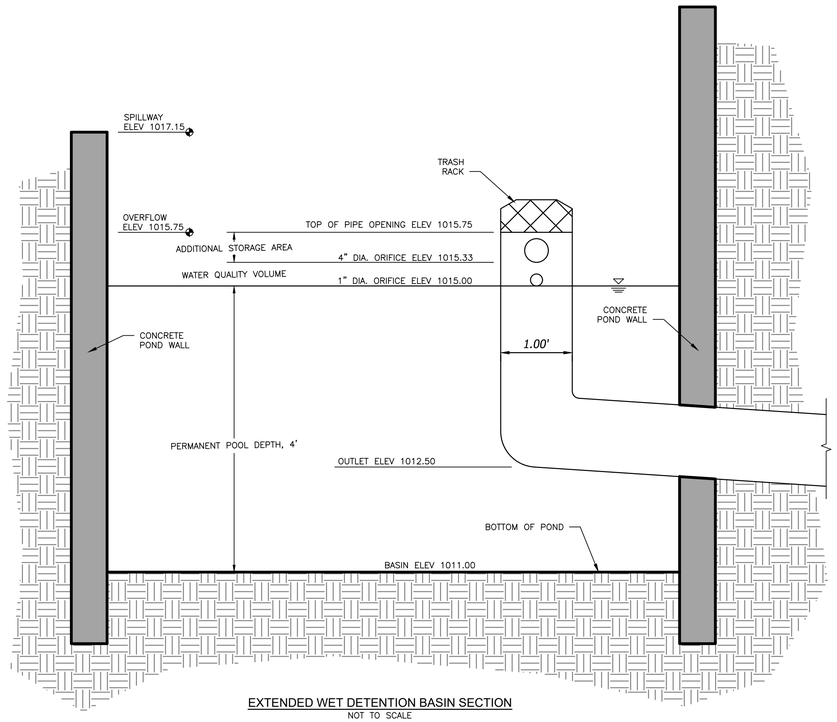

EXTENDED WET DETENTION BASIN SECTION
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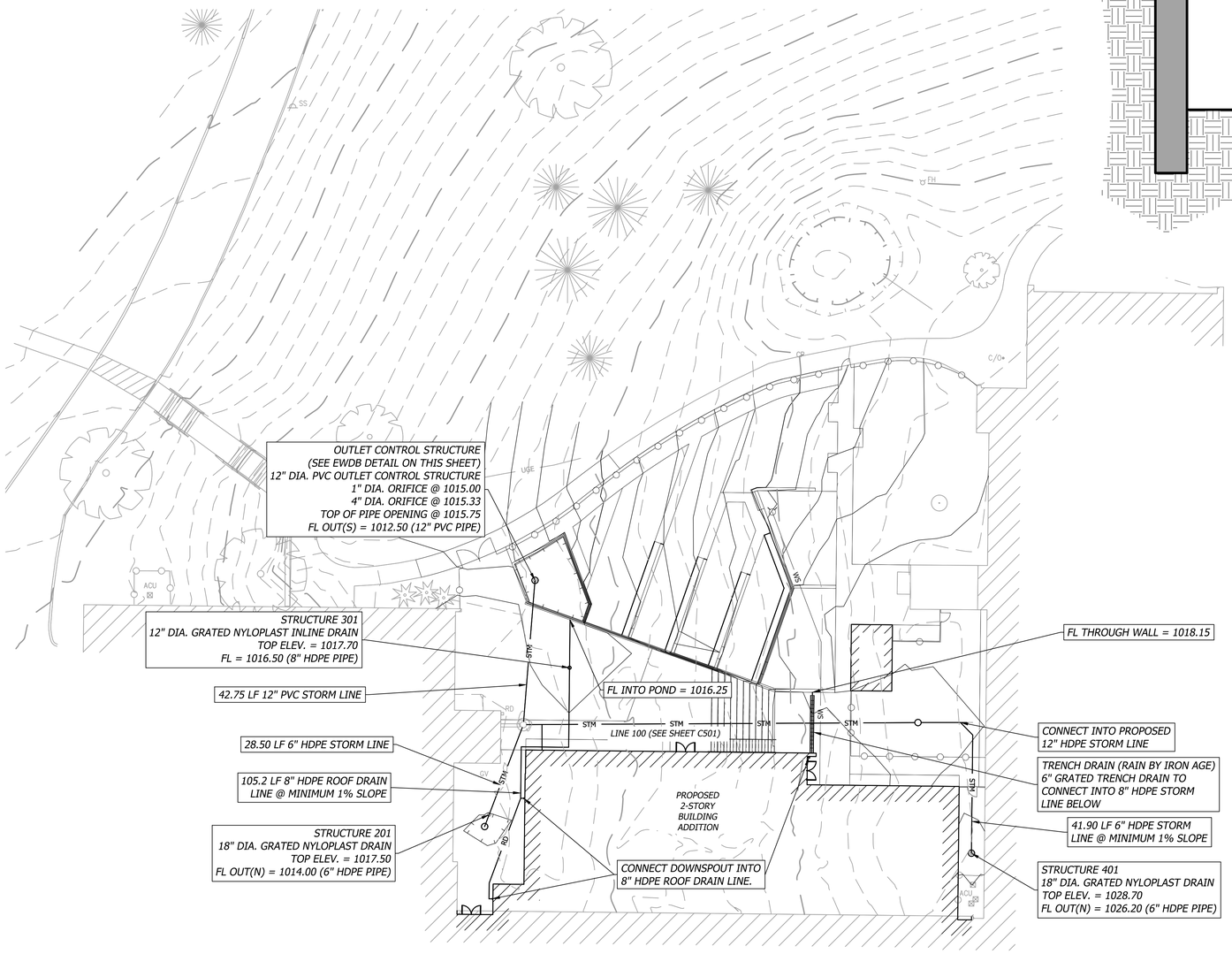

DRAINAGE LEGEND

980	PROPOSED FINISH GRADE MAJOR CONTOUR
982	PROPOSED FINISH GRADE MINOR CONTOUR
980	EXISTING GRADE MAJOR CONTOUR
982	EXISTING GRADE MINOR CONTOUR
STM	PROPOSED STORM SEWER LINE
RD	PROPOSED ROOF LINE DRAIN

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EAST HIGH SCHOOL REMODEL & ADDITION

7500 MISSION ROAD
PRAIRIE VILLAGE, KS 66208

Project Phase
100% BID PACKAGE

Project Number
20-304

Issue Date
01/06/2022

Revision No.	Description	Date Issued

Area Plan

Sheet Name
STORM PLAN

Sheet Number
C500

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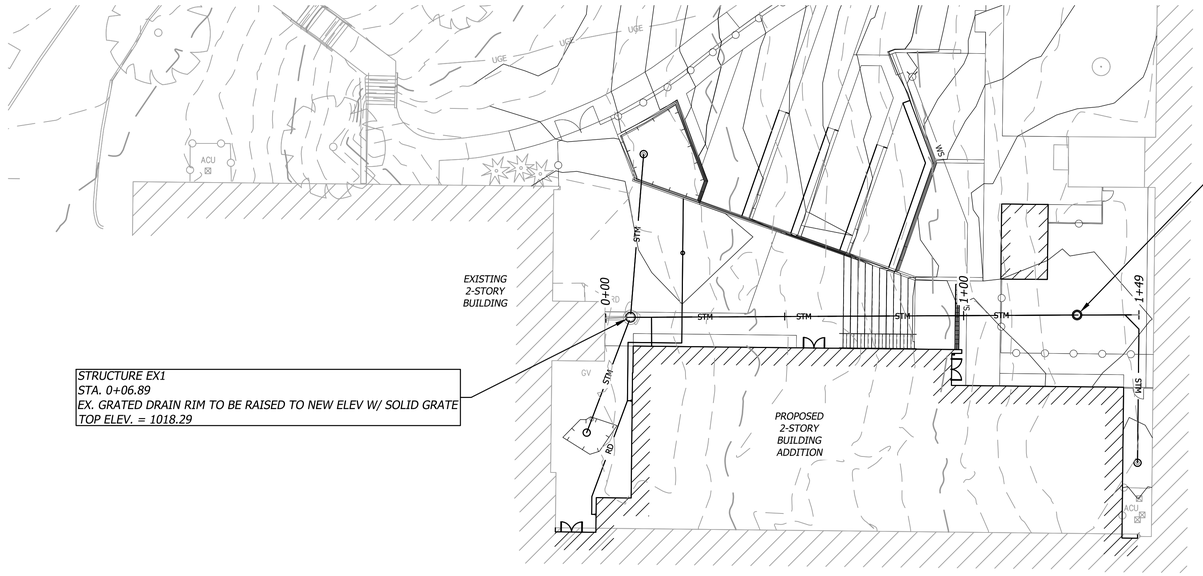
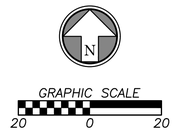


STORM NOTE

ALL NORTHINGS, EASTINGS, AND ALIGNMENT STATIONING FOR STORM STRUCTURES ARE TO CENTER OF STRUCTURE UNLESS STATED OTHERWISE.



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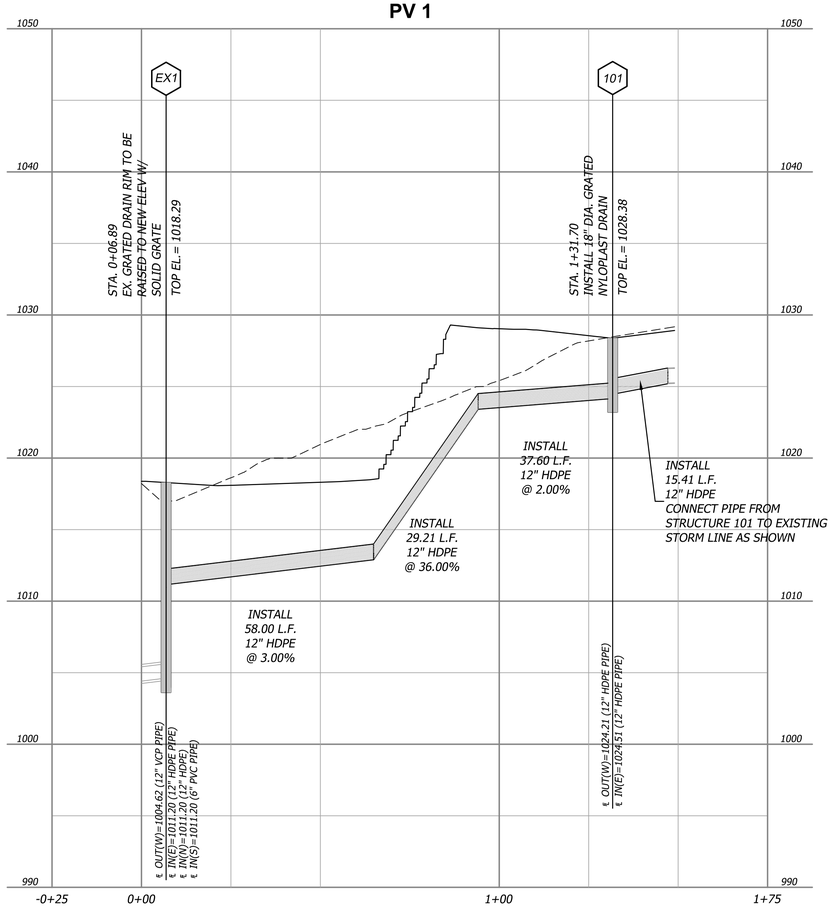

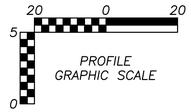

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EAST HIGH SCHOOL REMODEL & ADDITION

7500 MISSION ROAD
PRAIRIE VILLAGE, KS 66208

Project Phase
100% BID PACKAGE

Project Number
20-304

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Revision No.	Description	Date Issued

Area Plan

Sheet Name
STORM PLAN & PROFILE

Sheet Number
C501

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Table of Contents

	Master Network Summary	1
My Storms		
	Time-Depth Curve, 100 years	3
	Time-Depth Curve, 10 years	5
	Time-Depth Curve, 1 years	7
	Time-Depth Curve, 25 years	9
CM-1		
	Unit Hydrograph Summary, 1 years	11
	Unit Hydrograph Summary, 1 years	11
	Unit Hydrograph Summary, 10 years	15
	Unit Hydrograph Summary, 10 years	15
	Unit Hydrograph Summary, 25 years	19
	Unit Hydrograph Summary, 25 years	19
	Unit Hydrograph Summary, 100 years	23
	Unit Hydrograph Summary, 100 years	23
PO-2		
	Elevation-Area Volume Curve, 1 years	27
	Elevation-Area Volume Curve, 10 years	28
	Elevation-Area Volume Curve, 25 years	29
	Elevation-Area Volume Curve, 100 years	30
Composite Outlet Structure - 1		
	Outlet Input Data, 1 years	31
	Individual Outlet Curves, 1 years	34
	Composite Rating Curve, 1 years	38
PO-2		
	Elevation-Volume-Flow Table (Pond), 1 years	39
PO-2 (IN)		
	Level Pool Pond Routing Summary, 1 years	40
	Level Pool Pond Routing Summary, 10 years	41
	Level Pool Pond Routing Summary, 25 years	42
	Level Pool Pond Routing Summary, 100 years	43
PO-2 (OUT)		
	Pond Routed Hydrograph (total out), 1 years	44

Table of Contents

Pond Routed Hydrograph (total out), 10 years 46

Pond Routed Hydrograph (total out), 25 years 48

Pond Routed Hydrograph (total out), 100 years 50

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft³/s)
CM-1	Post-Development 1	1	0.068	11.950	1.23
CM-1	Pre-Development 1	1	0.059	11.950	1.06
CM-1	Pre-Development 10	10	0.158	11.900	2.86
CM-1	Post-Development 10	10	0.172	11.900	3.12
CM-1	Pre-Development 25	25	0.202	11.900	3.67
CM-1	Post-Development 25	25	0.218	11.900	3.93
CM-1	Pre-Development 100	100	0.276	11.900	4.97
CM-1	Post-Development 100	100	0.294	11.900	5.24

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft³/s)
O-1	Post-Development 1	1	0.067	11.950	1.25
O-1	Pre-Development 1	1	0.059	11.950	1.06
O-1	Pre-Development 10	10	0.158	11.900	2.86
O-1	Post-Development 10	10	0.170	11.950	3.11
O-1	Pre-Development 25	25	0.202	11.900	3.67
O-1	Post-Development 25	25	0.216	11.950	3.90
O-1	Pre-Development 100	100	0.276	11.900	4.97
O-1	Post-Development 100	100	0.291	11.950	4.99

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
PO-2 (IN)	Post-Development 1	1	0.068	11.950	1.23	(N/A)	(N/A)
PO-2 (OUT)	Post-Development 1	1	0.067	11.950	1.25	1,015.89	0.007
PO-2 (IN)	Post-Development 10	10	0.172	11.900	3.12	(N/A)	(N/A)
PO-2 (OUT)	Post-Development 10	10	0.170	11.950	3.11	1,016.25	0.010
PO-2 (IN)	Post-Development 25	25	0.218	11.900	3.93	(N/A)	(N/A)

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft^3/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
PO-2 (OUT)	Post-Development 25	25	0.216	11.950	3.90	1,016.42	0.011
PO-2 (IN)	Post-Development 100	100	0.294	11.900	5.24	(N/A)	(N/A)
PO-2 (OUT)	Post-Development 100	100	0.291	11.950	4.99	1,016.79	0.014

Time-Depth Curve: 100-yr	
Label	100-yr
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	100 years

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.0	0.0	0.1	0.1	0.1
1.000	0.1	0.1	0.1	0.1	0.1
1.500	0.1	0.1	0.1	0.2	0.2
2.000	0.2	0.2	0.2	0.2	0.2
2.500	0.2	0.2	0.2	0.3	0.3
3.000	0.3	0.3	0.3	0.3	0.3
3.500	0.3	0.3	0.3	0.4	0.4
4.000	0.4	0.4	0.4	0.4	0.4
4.500	0.4	0.4	0.5	0.5	0.5
5.000	0.5	0.5	0.5	0.5	0.5
5.500	0.6	0.6	0.6	0.6	0.6
6.000	0.6	0.6	0.7	0.7	0.7
6.500	0.7	0.7	0.7	0.8	0.8
7.000	0.8	0.8	0.8	0.8	0.8
7.500	0.9	0.9	0.9	0.9	0.9
8.000	0.9	1.0	1.0	1.0	1.0
8.500	1.0	1.1	1.1	1.1	1.1
9.000	1.2	1.2	1.2	1.2	1.3
9.500	1.3	1.3	1.3	1.4	1.4
10.000	1.4	1.5	1.5	1.5	1.6
10.500	1.6	1.7	1.7	1.7	1.8
11.000	1.9	1.9	2.0	2.1	2.1
11.500	2.2	2.4	2.8	3.4	4.5
12.000	5.2	5.4	5.5	5.6	5.7
12.500	5.8	5.9	5.9	6.0	6.0
13.000	6.1	6.1	6.2	6.2	6.3
13.500	6.3	6.3	6.4	6.4	6.4
14.000	6.5	6.5	6.5	6.6	6.6
14.500	6.6	6.6	6.7	6.7	6.7
15.000	6.7	6.8	6.8	6.8	6.8
15.500	6.9	6.9	6.9	6.9	6.9
16.000	7.0	7.0	7.0	7.0	7.0
16.500	7.0	7.1	7.1	7.1	7.1
17.000	7.1	7.1	7.2	7.2	7.2
17.500	7.2	7.2	7.2	7.2	7.3

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
18.000	7.3	7.3	7.3	7.3	7.3
18.500	7.3	7.4	7.4	7.4	7.4
19.000	7.4	7.4	7.4	7.4	7.5
19.500	7.5	7.5	7.5	7.5	7.5
20.000	7.5	7.5	7.5	7.6	7.6
20.500	7.6	7.6	7.6	7.6	7.6
21.000	7.6	7.6	7.6	7.7	7.7
21.500	7.7	7.7	7.7	7.7	7.7
22.000	7.7	7.7	7.7	7.7	7.8
22.500	7.8	7.8	7.8	7.8	7.8
23.000	7.8	7.8	7.8	7.8	7.8
23.500	7.9	7.9	7.9	7.9	7.9
24.000	7.9	(N/A)	(N/A)	(N/A)	(N/A)

Time-Depth Curve: 10-yr	
Label	10-yr
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	10 years

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.0	0.0	0.0	0.0	0.0
1.000	0.1	0.1	0.1	0.1	0.1
1.500	0.1	0.1	0.1	0.1	0.1
2.000	0.1	0.1	0.1	0.1	0.1
2.500	0.1	0.2	0.2	0.2	0.2
3.000	0.2	0.2	0.2	0.2	0.2
3.500	0.2	0.2	0.2	0.2	0.2
4.000	0.3	0.3	0.3	0.3	0.3
4.500	0.3	0.3	0.3	0.3	0.3
5.000	0.3	0.3	0.4	0.4	0.4
5.500	0.4	0.4	0.4	0.4	0.4
6.000	0.4	0.4	0.4	0.5	0.5
6.500	0.5	0.5	0.5	0.5	0.5
7.000	0.5	0.5	0.5	0.6	0.6
7.500	0.6	0.6	0.6	0.6	0.6
8.000	0.6	0.6	0.7	0.7	0.7
8.500	0.7	0.7	0.7	0.7	0.8
9.000	0.8	0.8	0.8	0.8	0.8
9.500	0.9	0.9	0.9	0.9	0.9
10.000	1.0	1.0	1.0	1.0	1.1
10.500	1.1	1.1	1.1	1.2	1.2
11.000	1.2	1.3	1.3	1.4	1.4
11.500	1.5	1.6	1.9	2.3	3.0
12.000	3.5	3.6	3.7	3.8	3.8
12.500	3.9	3.9	4.0	4.0	4.1
13.000	4.1	4.1	4.2	4.2	4.2
13.500	4.2	4.3	4.3	4.3	4.3
14.000	4.3	4.4	4.4	4.4	4.4
14.500	4.4	4.5	4.5	4.5	4.5
15.000	4.5	4.5	4.6	4.6	4.6
15.500	4.6	4.6	4.6	4.6	4.7
16.000	4.7	4.7	4.7	4.7	4.7
16.500	4.7	4.7	4.7	4.8	4.8
17.000	4.8	4.8	4.8	4.8	4.8
17.500	4.8	4.8	4.9	4.9	4.9

Subsection: Time-Depth Curve
Label: My Storms

Return Event: 10 years
Storm Event: 10-yr

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
18.000	4.9	4.9	4.9	4.9	4.9
18.500	4.9	4.9	4.9	5.0	5.0
19.000	5.0	5.0	5.0	5.0	5.0
19.500	5.0	5.0	5.0	5.0	5.0
20.000	5.0	5.1	5.1	5.1	5.1
20.500	5.1	5.1	5.1	5.1	5.1
21.000	5.1	5.1	5.1	5.1	5.1
21.500	5.1	5.2	5.2	5.2	5.2
22.000	5.2	5.2	5.2	5.2	5.2
22.500	5.2	5.2	5.2	5.2	5.2
23.000	5.2	5.2	5.3	5.3	5.3
23.500	5.3	5.3	5.3	5.3	5.3
24.000	5.3	(N/A)	(N/A)	(N/A)	(N/A)

Time-Depth Curve: 1-yr	
Label	1-yr
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	1 years

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.0	0.0	0.0	0.0	0.0
1.000	0.0	0.0	0.0	0.0	0.0
1.500	0.0	0.1	0.1	0.1	0.1
2.000	0.1	0.1	0.1	0.1	0.1
2.500	0.1	0.1	0.1	0.1	0.1
3.000	0.1	0.1	0.1	0.1	0.1
3.500	0.1	0.1	0.1	0.1	0.1
4.000	0.1	0.1	0.1	0.2	0.2
4.500	0.2	0.2	0.2	0.2	0.2
5.000	0.2	0.2	0.2	0.2	0.2
5.500	0.2	0.2	0.2	0.2	0.2
6.000	0.2	0.2	0.2	0.2	0.3
6.500	0.3	0.3	0.3	0.3	0.3
7.000	0.3	0.3	0.3	0.3	0.3
7.500	0.3	0.3	0.3	0.3	0.3
8.000	0.3	0.4	0.4	0.4	0.4
8.500	0.4	0.4	0.4	0.4	0.4
9.000	0.4	0.4	0.4	0.5	0.5
9.500	0.5	0.5	0.5	0.5	0.5
10.000	0.5	0.5	0.5	0.6	0.6
10.500	0.6	0.6	0.6	0.6	0.7
11.000	0.7	0.7	0.7	0.8	0.8
11.500	0.8	0.9	1.0	1.2	1.6
12.000	1.9	2.0	2.0	2.1	2.1
12.500	2.1	2.2	2.2	2.2	2.2
13.000	2.2	2.3	2.3	2.3	2.3
13.500	2.3	2.3	2.3	2.4	2.4
14.000	2.4	2.4	2.4	2.4	2.4
14.500	2.4	2.4	2.4	2.5	2.5
15.000	2.5	2.5	2.5	2.5	2.5
15.500	2.5	2.5	2.5	2.5	2.5
16.000	2.6	2.6	2.6	2.6	2.6
16.500	2.6	2.6	2.6	2.6	2.6
17.000	2.6	2.6	2.6	2.6	2.6
17.500	2.6	2.6	2.7	2.7	2.7

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
18.000	2.7	2.7	2.7	2.7	2.7
18.500	2.7	2.7	2.7	2.7	2.7
19.000	2.7	2.7	2.7	2.7	2.7
19.500	2.7	2.7	2.7	2.8	2.8
20.000	2.8	2.8	2.8	2.8	2.8
20.500	2.8	2.8	2.8	2.8	2.8
21.000	2.8	2.8	2.8	2.8	2.8
21.500	2.8	2.8	2.8	2.8	2.8
22.000	2.8	2.8	2.8	2.8	2.8
22.500	2.9	2.9	2.9	2.9	2.9
23.000	2.9	2.9	2.9	2.9	2.9
23.500	2.9	2.9	2.9	2.9	2.9
24.000	2.9	(N/A)	(N/A)	(N/A)	(N/A)

Time-Depth Curve: 25-yr	
Label	25-yr
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	25 years

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.0	0.0	0.0	0.1	0.1
1.000	0.1	0.1	0.1	0.1	0.1
1.500	0.1	0.1	0.1	0.1	0.1
2.000	0.1	0.1	0.2	0.2	0.2
2.500	0.2	0.2	0.2	0.2	0.2
3.000	0.2	0.2	0.2	0.2	0.3
3.500	0.3	0.3	0.3	0.3	0.3
4.000	0.3	0.3	0.3	0.3	0.3
4.500	0.3	0.4	0.4	0.4	0.4
5.000	0.4	0.4	0.4	0.4	0.4
5.500	0.4	0.5	0.5	0.5	0.5
6.000	0.5	0.5	0.5	0.5	0.6
6.500	0.6	0.6	0.6	0.6	0.6
7.000	0.6	0.6	0.6	0.7	0.7
7.500	0.7	0.7	0.7	0.7	0.7
8.000	0.8	0.8	0.8	0.8	0.8
8.500	0.8	0.9	0.9	0.9	0.9
9.000	0.9	0.9	1.0	1.0	1.0
9.500	1.0	1.0	1.1	1.1	1.1
10.000	1.1	1.2	1.2	1.2	1.3
10.500	1.3	1.3	1.4	1.4	1.4
11.000	1.5	1.5	1.6	1.6	1.7
11.500	1.8	1.9	2.2	2.7	3.6
12.000	4.2	4.3	4.4	4.5	4.6
12.500	4.6	4.7	4.7	4.8	4.8
13.000	4.9	4.9	4.9	5.0	5.0
13.500	5.0	5.1	5.1	5.1	5.1
14.000	5.2	5.2	5.2	5.2	5.3
14.500	5.3	5.3	5.3	5.3	5.4
15.000	5.4	5.4	5.4	5.4	5.4
15.500	5.5	5.5	5.5	5.5	5.5
16.000	5.5	5.6	5.6	5.6	5.6
16.500	5.6	5.6	5.6	5.7	5.7
17.000	5.7	5.7	5.7	5.7	5.7
17.500	5.7	5.8	5.8	5.8	5.8

Subsection: Time-Depth Curve
Label: My Storms

Return Event: 25 years
Storm Event: 25-yr

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
18.000	5.8	5.8	5.8	5.8	5.8
18.500	5.9	5.9	5.9	5.9	5.9
19.000	5.9	5.9	5.9	5.9	5.9
19.500	6.0	6.0	6.0	6.0	6.0
20.000	6.0	6.0	6.0	6.0	6.0
20.500	6.0	6.0	6.1	6.1	6.1
21.000	6.1	6.1	6.1	6.1	6.1
21.500	6.1	6.1	6.1	6.1	6.1
22.000	6.2	6.2	6.2	6.2	6.2
22.500	6.2	6.2	6.2	6.2	6.2
23.000	6.2	6.2	6.2	6.3	6.3
23.500	6.3	6.3	6.3	6.3	6.3
24.000	6.3	(N/A)	(N/A)	(N/A)	(N/A)

Storm Event	1-yr
Return Event	1 years
Duration	24.000 hours
Depth	2.9 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	0.600 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	11.922 hours
Flow (Peak, Computed)	1.29 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	11.950 hours
Flow (Peak Interpolated Output)	1.23 ft³/s

Drainage Area	
SCS CN (Composite)	83.000
Area (User Defined)	0.600 acres
Maximum Retention (Pervious)	2.0 in
Maximum Retention (Pervious, 20 percent)	0.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.4 in
Runoff Volume (Pervious)	0.068 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.068 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.16 ft³/s
Unit peak time, Tp	0.056 hours

SCS Unit Hydrograph Parameters	
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

Storm Event	1-yr
Return Event	1 years
Duration	24.000 hours
Depth	2.9 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	0.600 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	11.922 hours
Flow (Peak, Computed)	1.10 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	11.950 hours
Flow (Peak Interpolated Output)	1.06 ft³/s

Drainage Area	
SCS CN (Composite)	80.000
Area (User Defined)	0.600 acres
Maximum Retention (Pervious)	2.5 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.2 in
Runoff Volume (Pervious)	0.059 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.059 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.16 ft³/s
Unit peak time, Tp	0.056 hours

SCS Unit Hydrograph Parameters	
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

Storm Event	10-yr
Return Event	10 years
Duration	24.000 hours
Depth	5.3 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	0.600 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	11.922 hours
Flow (Peak, Computed)	3.23 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	11.900 hours
Flow (Peak Interpolated Output)	3.12 ft³/s

Drainage Area	
SCS CN (Composite)	83.000
Area (User Defined)	0.600 acres
Maximum Retention (Pervious)	2.0 in
Maximum Retention (Pervious, 20 percent)	0.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	0.172 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.172 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.16 ft³/s
Unit peak time, Tp	0.056 hours

SCS Unit Hydrograph Parameters	
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

Storm Event	10-yr
Return Event	10 years
Duration	24.000 hours
Depth	5.3 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	0.600 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	11.922 hours
Flow (Peak, Computed)	2.98 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	11.900 hours
Flow (Peak Interpolated Output)	2.86 ft³/s

Drainage Area	
SCS CN (Composite)	80.000
Area (User Defined)	0.600 acres
Maximum Retention (Pervious)	2.5 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.2 in
Runoff Volume (Pervious)	0.158 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.158 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.16 ft³/s
Unit peak time, Tp	0.056 hours

SCS Unit Hydrograph Parameters	
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

Storm Event	25-yr
Return Event	25 years
Duration	24.000 hours
Depth	6.3 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	0.600 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	11.922 hours
Flow (Peak, Computed)	4.06 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	11.900 hours
Flow (Peak Interpolated Output)	3.93 ft³/s

Drainage Area	
SCS CN (Composite)	83.000
Area (User Defined)	0.600 acres
Maximum Retention (Pervious)	2.0 in
Maximum Retention (Pervious, 20 percent)	0.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.4 in
Runoff Volume (Pervious)	0.219 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.218 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.16 ft³/s
Unit peak time, Tp	0.056 hours

SCS Unit Hydrograph Parameters	
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

Storm Event	25-yr
Return Event	25 years
Duration	24.000 hours
Depth	6.3 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	0.600 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	11.922 hours
Flow (Peak, Computed)	3.80 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	11.900 hours
Flow (Peak Interpolated Output)	3.67 ft³/s

Drainage Area	
SCS CN (Composite)	80.000
Area (User Defined)	0.600 acres
Maximum Retention (Pervious)	2.5 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	0.203 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.202 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.16 ft³/s
Unit peak time, Tp	0.056 hours

SCS Unit Hydrograph Parameters	
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

Storm Event	100-yr
Return Event	100 years
Duration	24.000 hours
Depth	7.9 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	0.600 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	11.922 hours
Flow (Peak, Computed)	5.38 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	11.900 hours
Flow (Peak Interpolated Output)	5.24 ft³/s

Drainage Area	
SCS CN (Composite)	83.000
Area (User Defined)	0.600 acres
Maximum Retention (Pervious)	2.0 in
Maximum Retention (Pervious, 20 percent)	0.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.9 in
Runoff Volume (Pervious)	0.294 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.294 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.16 ft³/s
Unit peak time, Tp	0.056 hours

SCS Unit Hydrograph Parameters	
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

Storm Event	100-yr
Return Event	100 years
Duration	24.000 hours
Depth	7.9 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	0.600 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	11.922 hours
Flow (Peak, Computed)	5.13 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	11.900 hours
Flow (Peak Interpolated Output)	4.97 ft³/s

Drainage Area	
SCS CN (Composite)	80.000
Area (User Defined)	0.600 acres
Maximum Retention (Pervious)	2.5 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.5 in
Runoff Volume (Pervious)	0.277 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.276 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.16 ft³/s
Unit peak time, Tp	0.056 hours

SCS Unit Hydrograph Parameters	
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

Subsection: Elevation-Area Volume Curve
Label: PO-2

Return Event: 1 years
Storm Event: 1-yr

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr(A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
1,015.00	0.0	0.008	0.000	0.000	0.000
1,016.00	0.0	0.008	0.024	0.008	0.008
1,017.00	0.0	0.008	0.024	0.008	0.016
1,017.40	0.0	0.008	0.024	0.003	0.019

Subsection: Elevation-Area Volume Curve
Label: PO-2

Return Event: 10 years
Storm Event: 10-yr

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr(A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
1,015.00	0.0	0.008	0.000	0.000	0.000
1,016.00	0.0	0.008	0.024	0.008	0.008
1,017.00	0.0	0.008	0.024	0.008	0.016
1,017.40	0.0	0.008	0.024	0.003	0.019

Subsection: Elevation-Area Volume Curve
Label: PO-2

Return Event: 25 years
Storm Event: 25-yr

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr(A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
1,015.00	0.0	0.008	0.000	0.000	0.000
1,016.00	0.0	0.008	0.024	0.008	0.008
1,017.00	0.0	0.008	0.024	0.008	0.016
1,017.40	0.0	0.008	0.024	0.003	0.019

Subsection: Elevation-Area Volume Curve
Label: PO-2

Return Event: 100 years
Storm Event: 100-yr

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr(A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
1,015.00	0.0	0.008	0.000	0.000	0.000
1,016.00	0.0	0.008	0.024	0.008	0.008
1,017.00	0.0	0.008	0.024	0.008	0.016
1,017.40	0.0	0.008	0.024	0.003	0.019

Requested Pond Water Surface Elevations	
Minimum (Headwater)	1,015.00 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,017.40 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	Orifice - 2	Forward	TW	1,015.33	1,017.40
Stand Pipe	Riser - 1	Forward	TW	1,015.75	1,017.40
Orifice-Circular	Orifice - 1	Forward	TW	1,015.00	1,017.40
Rectangular Weir	Weir - 1	Forward	TW	1,017.15	1,017.40
Tailwater Settings	Tailwater			(N/A)	(N/A)

Structure ID: Orifice - 1 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	1,015.00 ft
Orifice Diameter	1.0 in
Orifice Coefficient	0.600

Structure ID: Riser - 1 Structure Type: Stand Pipe	
Number of Openings	1
Elevation	1,015.75 ft
Diameter	12.0 in
Orifice Area	0.8 ft²
Orifice Coefficient	0.600
Weir Length	3.14 ft
Weir Coefficient	3.00 (ft^0.5)/s
K Reverse	1.000
Manning's n	0.000
Kev, Charged Riser	0.000
Weir Submergence	False
Orifice H to crest	True

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	1,017.15 ft
Weir Length	4.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: Orifice - 2 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	1,015.33 ft
Orifice Diameter	4.0 in
Orifice Coefficient	0.600

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft

Convergence Tolerances	
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 1 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
1,015.00	0.00	(N/A)	0.00
1,015.33	0.05	(N/A)	0.00
1,015.50	0.07	(N/A)	0.00
1,015.75	0.09	(N/A)	0.00
1,016.00	0.10	(N/A)	0.00
1,016.50	0.12	(N/A)	0.00
1,017.00	0.15	(N/A)	0.00
1,017.15	0.15	(N/A)	0.00
1,017.40	0.16	(N/A)	0.00

Computation Messages
Upstream HW & DNstream TW < Inv.El
H =.25
H =.42
H =.67
H =.92
H =1.42
H =1.92
H =2.07
H =2.32

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Riser - 1 (Stand Pipe)

Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
1,015.00	0.00	(N/A)	0.00
1,015.33	0.00	(N/A)	0.00
1,015.50	0.00	(N/A)	0.00
1,015.75	0.00	(N/A)	0.00
1,016.00	1.18	(N/A)	0.00
1,016.50	3.27	(N/A)	0.00
1,017.00	4.23	(N/A)	0.00
1,017.15	4.47	(N/A)	0.00
1,017.40	4.86	(N/A)	0.00

Computation Messages
HW & TW < Inv.El.=1015.750
HW & TW < Inv.El.=1015.750
HW & TW < Inv.El.=1015.750
Weir: H =0ft
Weir: H =0.25ft
Orifice: H =.75; Riser orifice equation controlling.
Orifice: H =1.25; Riser orifice equation controlling.
Orifice: H =1.40; Riser orifice equation controlling.
Orifice: H =1.65; Riser orifice equation controlling.

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Weir - 1 (Rectangular Weir)

Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
1,015.00	0.00	(N/A)	0.00
1,015.33	0.00	(N/A)	0.00
1,015.50	0.00	(N/A)	0.00
1,015.75	0.00	(N/A)	0.00
1,016.00	0.00	(N/A)	0.00
1,016.50	0.00	(N/A)	0.00
1,017.00	0.00	(N/A)	0.00
1,017.15	0.00	(N/A)	0.00
1,017.40	1.50	(N/A)	0.00

Computation Messages
HW & TW below Inv.El.=1017.150
HW & TW below Inv.El.=1017.150
HW & TW below Inv.El.=1017.150
HW & TW below Inv.El.=1017.150
HW & TW below Inv.El.=1017.150
HW & TW below Inv.El.=1017.150
HW & TW below Inv.El.=1017.150
H=.00; Htw=.00; Qfree=.00;
H=.25; Htw=.00; Qfree=1.50;

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 2 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
1,015.00	0.00	(N/A)	0.00
1,015.33	0.00	(N/A)	0.00
1,015.50	0.06	(N/A)	0.00
1,015.75	0.34	(N/A)	0.00
1,016.00	0.61	(N/A)	0.00
1,016.50	0.91	(N/A)	0.00
1,017.00	1.13	(N/A)	0.00
1,017.15	1.18	(N/A)	0.00
1,017.40	1.27	(N/A)	0.00

Computation Messages
HW & TW below invert
Upstream HW & DNstream TW < Inv.El
CRIT.DEPTH CONTROL Vh= .044ft Dcr= .125ft
CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .123ft Dcr= .297ft
CRIT.DEPTH Hev= .00ft
H =.42
H =.92
H =1.42
H =1.57
H =1.82

Subsection: Composite Rating Curve
Label: Composite Outlet Structure - 1

Return Event: 1 years
Storm Event: 1-yr

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
1,015.00	0.00	(N/A)	0.00
1,015.33	0.05	(N/A)	0.00
1,015.50	0.13	(N/A)	0.00
1,015.75	0.43	(N/A)	0.00
1,016.00	1.89	(N/A)	0.00
1,016.50	4.31	(N/A)	0.00
1,017.00	5.50	(N/A)	0.00
1,017.15	5.81	(N/A)	0.00
1,017.40	7.79	(N/A)	0.00

Contributing Structures
None Contributing
Orifice - 1
Orifice - 2 + Orifice - 1
Orifice - 2 + Riser - 1 + Orifice - 1
Orifice - 2 + Riser - 1 + Orifice - 1
Orifice - 2 + Riser - 1 + Orifice - 1
Orifice - 2 + Riser - 1 + Orifice - 1
Orifice - 2 + Riser - 1 + Orifice - 1 + Weir - 1
Orifice - 2 + Riser - 1 + Orifice - 1 + Weir - 1

Subsection: Elevation-Volume-Flow Table (Pond)
Label: PO-2

Return Event: 1 years
Storm Event: 1-yr

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	1,015.00 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ac-ft)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
1,015.00	0.00	0.000	0.008	0.00	0.00	0.00
1,015.33	0.05	0.003	0.008	0.00	0.05	1.33
1,015.50	0.13	0.004	0.008	0.00	0.13	2.07
1,015.75	0.43	0.006	0.008	0.00	0.43	3.33
1,016.00	1.89	0.008	0.008	0.00	1.89	5.76
1,016.50	4.31	0.012	0.008	0.00	4.31	10.11
1,017.00	5.50	0.016	0.008	0.00	5.50	13.24
1,017.15	5.81	0.017	0.008	0.00	5.81	14.13
1,017.40	7.79	0.019	0.008	0.00	7.79	17.08

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	1,015.00 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.23 ft³/s	Time to Peak (Flow, In)	11.950 hours
Flow (Peak Outlet)	1.25 ft³/s	Time to Peak (Flow, Outlet)	11.950 hours

Elevation (Water Surface, Peak)	1,015.89 ft
Volume (Peak)	0.007 ac-ft

Mass Balance (ac-ft)	
Volume (Initial)	0.000 ac-ft
Volume (Total Inflow)	0.068 ac-ft
Volume (Total Infiltration)	0.000 ac-ft
Volume (Total Outlet Outflow)	0.067 ac-ft
Volume (Retained)	0.001 ac-ft
Volume (Unrouted)	0.000 ac-ft
Error (Mass Balance)	0.1 %

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	1,015.00 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.12 ft³/s	Time to Peak (Flow, In)	11.900 hours
Flow (Peak Outlet)	3.11 ft³/s	Time to Peak (Flow, Outlet)	11.950 hours

Elevation (Water Surface, Peak)	1,016.25 ft
Volume (Peak)	0.010 ac-ft

Mass Balance (ac-ft)	
Volume (Initial)	0.000 ac-ft
Volume (Total Inflow)	0.172 ac-ft
Volume (Total Infiltration)	0.000 ac-ft
Volume (Total Outlet Outflow)	0.170 ac-ft
Volume (Retained)	0.002 ac-ft
Volume (Unrouted)	0.000 ac-ft
Error (Mass Balance)	0.1 %

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	1,015.00 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.93 ft³/s	Time to Peak (Flow, In)	11.900 hours
Flow (Peak Outlet)	3.90 ft³/s	Time to Peak (Flow, Outlet)	11.950 hours

Elevation (Water Surface, Peak)	1,016.42 ft
Volume (Peak)	0.011 ac-ft

Mass Balance (ac-ft)	
Volume (Initial)	0.000 ac-ft
Volume (Total Inflow)	0.218 ac-ft
Volume (Total Infiltration)	0.000 ac-ft
Volume (Total Outlet Outflow)	0.216 ac-ft
Volume (Retained)	0.002 ac-ft
Volume (Unrouted)	0.000 ac-ft
Error (Mass Balance)	0.1 %

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	1,015.00 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	5.24 ft³/s	Time to Peak (Flow, In)	11.900 hours
Flow (Peak Outlet)	4.99 ft³/s	Time to Peak (Flow, Outlet)	11.950 hours

Elevation (Water Surface, Peak)	1,016.79 ft
Volume (Peak)	0.014 ac-ft

Mass Balance (ac-ft)	
Volume (Initial)	0.000 ac-ft
Volume (Total Inflow)	0.294 ac-ft
Volume (Total Infiltration)	0.000 ac-ft
Volume (Total Outlet Outflow)	0.291 ac-ft
Volume (Retained)	0.002 ac-ft
Volume (Unrouted)	0.000 ac-ft
Error (Mass Balance)	0.1 %

Peak Discharge	1.25 ft³/s
Time to Peak	11.950 hours
Hydrograph Volume	0.067 ac-ft

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)
9.450	0.00	0.00	0.00	0.00	0.00
9.700	0.00	0.00	0.00	0.00	0.00
9.950	0.00	0.00	0.00	0.00	0.00
10.200	0.00	0.00	0.01	0.01	0.01
10.450	0.01	0.01	0.01	0.01	0.01
10.700	0.01	0.01	0.01	0.01	0.01
10.950	0.01	0.01	0.02	0.02	0.02
11.200	0.02	0.02	0.02	0.02	0.03
11.450	0.03	0.03	0.03	0.04	0.05
11.700	0.08	0.15	0.31	0.60	1.13
11.950	1.25	1.16	0.90	0.50	0.36
12.200	0.30	0.25	0.22	0.20	0.18
12.450	0.16	0.15	0.14	0.13	0.12
12.700	0.12	0.11	0.11	0.11	0.10
12.950	0.10	0.10	0.09	0.09	0.09
13.200	0.08	0.08	0.08	0.08	0.07
13.450	0.07	0.07	0.07	0.07	0.07
13.700	0.06	0.06	0.06	0.06	0.06
13.950	0.06	0.06	0.05	0.05	0.05
14.200	0.05	0.05	0.05	0.05	0.05
14.450	0.05	0.05	0.05	0.05	0.05
14.700	0.05	0.05	0.05	0.05	0.05
14.950	0.05	0.05	0.04	0.04	0.04
15.200	0.04	0.04	0.04	0.04	0.04
15.450	0.04	0.04	0.04	0.04	0.04
15.700	0.04	0.04	0.04	0.04	0.04
15.950	0.04	0.04	0.04	0.04	0.04
16.200	0.04	0.03	0.03	0.03	0.03
16.450	0.03	0.03	0.03	0.03	0.03
16.700	0.03	0.03	0.03	0.03	0.03
16.950	0.03	0.03	0.03	0.03	0.03
17.200	0.03	0.03	0.03	0.03	0.03
17.450	0.03	0.03	0.03	0.03	0.03
17.700	0.03	0.03	0.03	0.03	0.03
17.950	0.03	0.03	0.03	0.03	0.03
18.200	0.03	0.03	0.03	0.03	0.03
18.450	0.03	0.03	0.02	0.02	0.02
18.700	0.02	0.02	0.02	0.02	0.02
18.950	0.02	0.02	0.02	0.02	0.02

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)
19.200	0.02	0.02	0.02	0.02	0.02
19.450	0.02	0.02	0.02	0.02	0.02
19.700	0.02	0.02	0.02	0.02	0.02
19.950	0.02	0.02	0.02	0.02	0.02
20.200	0.02	0.02	0.02	0.02	0.02
20.450	0.02	0.02	0.02	0.02	0.02
20.700	0.02	0.02	0.02	0.02	0.02
20.950	0.02	0.02	0.02	0.02	0.02
21.200	0.02	0.02	0.02	0.02	0.02
21.450	0.02	0.02	0.02	0.02	0.02
21.700	0.02	0.02	0.02	0.02	0.02
21.950	0.02	0.02	0.02	0.02	0.02
22.200	0.02	0.02	0.02	0.02	0.02
22.450	0.02	0.02	0.02	0.02	0.02
22.700	0.02	0.02	0.02	0.02	0.02
22.950	0.02	0.02	0.02	0.02	0.02
23.200	0.02	0.02	0.02	0.02	0.02
23.450	0.02	0.02	0.02	0.02	0.02
23.700	0.02	0.02	0.02	0.02	0.02
23.950	0.02	0.02	(N/A)	(N/A)	(N/A)

Peak Discharge	3.11 ft³/s
Time to Peak	11.950 hours
Hydrograph Volume	0.170 ac-ft

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)
6.450	0.00	0.00	0.00	0.00	0.00
6.700	0.00	0.00	0.00	0.00	0.00
6.950	0.00	0.00	0.00	0.00	0.00
7.200	0.00	0.00	0.00	0.01	0.01
7.450	0.01	0.01	0.01	0.01	0.01
7.700	0.01	0.01	0.01	0.01	0.01
7.950	0.01	0.01	0.01	0.01	0.01
8.200	0.01	0.01	0.01	0.01	0.01
8.450	0.01	0.01	0.01	0.01	0.01
8.700	0.02	0.02	0.02	0.02	0.02
8.950	0.02	0.02	0.02	0.02	0.02
9.200	0.02	0.02	0.02	0.02	0.02
9.450	0.03	0.03	0.03	0.03	0.03
9.700	0.03	0.03	0.03	0.03	0.03
9.950	0.03	0.03	0.03	0.04	0.04
10.200	0.04	0.04	0.04	0.04	0.04
10.450	0.05	0.05	0.05	0.05	0.06
10.700	0.06	0.07	0.07	0.08	0.08
10.950	0.08	0.09	0.09	0.10	0.11
11.200	0.11	0.12	0.13	0.14	0.16
11.450	0.17	0.18	0.22	0.28	0.39
11.700	0.78	1.11	1.46	2.02	2.78
11.950	3.11	2.80	2.16	1.17	0.60
12.200	0.50	0.45	0.42	0.41	0.38
12.450	0.36	0.33	0.30	0.28	0.26
12.700	0.24	0.23	0.22	0.21	0.21
12.950	0.20	0.19	0.18	0.18	0.17
13.200	0.17	0.16	0.16	0.16	0.15
13.450	0.15	0.14	0.14	0.14	0.13
13.700	0.13	0.13	0.13	0.13	0.12
13.950	0.12	0.12	0.12	0.11	0.11
14.200	0.11	0.11	0.11	0.10	0.10
14.450	0.10	0.10	0.10	0.10	0.10
14.700	0.10	0.10	0.09	0.09	0.09
14.950	0.09	0.09	0.09	0.09	0.09
15.200	0.09	0.09	0.09	0.08	0.08
15.450	0.08	0.08	0.08	0.08	0.08
15.700	0.08	0.08	0.08	0.07	0.07
15.950	0.07	0.07	0.07	0.07	0.07

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)
16.200	0.07	0.07	0.07	0.07	0.07
16.450	0.07	0.06	0.06	0.06	0.06
16.700	0.06	0.06	0.06	0.06	0.06
16.950	0.06	0.06	0.06	0.06	0.06
17.200	0.06	0.06	0.06	0.06	0.06
17.450	0.06	0.06	0.06	0.06	0.06
17.700	0.06	0.06	0.06	0.05	0.05
17.950	0.05	0.05	0.05	0.05	0.05
18.200	0.05	0.05	0.05	0.05	0.05
18.450	0.05	0.05	0.05	0.05	0.05
18.700	0.05	0.05	0.05	0.05	0.05
18.950	0.05	0.05	0.05	0.05	0.05
19.200	0.05	0.05	0.05	0.05	0.05
19.450	0.05	0.05	0.05	0.05	0.04
19.700	0.04	0.04	0.04	0.04	0.04
19.950	0.04	0.04	0.04	0.04	0.04
20.200	0.04	0.04	0.04	0.04	0.04
20.450	0.04	0.04	0.04	0.04	0.04
20.700	0.04	0.04	0.04	0.04	0.04
20.950	0.04	0.04	0.04	0.04	0.04
21.200	0.04	0.04	0.04	0.04	0.04
21.450	0.04	0.04	0.04	0.04	0.04
21.700	0.04	0.04	0.04	0.04	0.04
21.950	0.04	0.04	0.04	0.04	0.04
22.200	0.04	0.04	0.04	0.04	0.04
22.450	0.04	0.04	0.04	0.04	0.04
22.700	0.04	0.03	0.03	0.03	0.03
22.950	0.03	0.03	0.03	0.03	0.03
23.200	0.03	0.03	0.03	0.03	0.03
23.450	0.03	0.03	0.03	0.03	0.03
23.700	0.03	0.03	0.03	0.03	0.03
23.950	0.03	0.03	(N/A)	(N/A)	(N/A)

Peak Discharge	3.90 ft³/s
Time to Peak	11.950 hours
Hydrograph Volume	0.216 ac-ft

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)
5.650	0.00	0.00	0.00	0.00	0.00
5.900	0.00	0.00	0.00	0.00	0.00
6.150	0.00	0.00	0.00	0.00	0.00
6.400	0.00	0.00	0.01	0.01	0.01
6.650	0.01	0.01	0.01	0.01	0.01
6.900	0.01	0.01	0.01	0.01	0.01
7.150	0.01	0.01	0.01	0.01	0.01
7.400	0.01	0.01	0.01	0.01	0.01
7.650	0.01	0.01	0.01	0.01	0.02
7.900	0.02	0.02	0.02	0.02	0.02
8.150	0.02	0.02	0.02	0.02	0.02
8.400	0.02	0.02	0.02	0.02	0.02
8.650	0.02	0.03	0.03	0.03	0.03
8.900	0.03	0.03	0.03	0.03	0.03
9.150	0.03	0.03	0.04	0.04	0.04
9.400	0.04	0.04	0.04	0.04	0.04
9.650	0.04	0.04	0.04	0.05	0.05
9.900	0.05	0.05	0.05	0.05	0.05
10.150	0.06	0.06	0.07	0.07	0.07
10.400	0.08	0.08	0.08	0.09	0.09
10.650	0.09	0.10	0.10	0.11	0.11
10.900	0.12	0.12	0.13	0.13	0.15
11.150	0.16	0.17	0.18	0.20	0.21
11.400	0.22	0.24	0.25	0.29	0.37
11.650	0.67	1.06	1.43	1.88	2.54
11.900	3.52	3.90	3.50	2.69	1.49
12.150	0.73	0.62	0.55	0.51	0.47
12.400	0.44	0.42	0.39	0.36	0.34
12.650	0.32	0.30	0.28	0.27	0.26
12.900	0.25	0.24	0.24	0.23	0.22
13.150	0.21	0.21	0.20	0.20	0.19
13.400	0.19	0.18	0.18	0.17	0.17
13.650	0.16	0.16	0.16	0.15	0.15
13.900	0.15	0.14	0.14	0.14	0.13
14.150	0.13	0.13	0.13	0.13	0.13
14.400	0.13	0.12	0.12	0.12	0.12
14.650	0.12	0.12	0.12	0.12	0.11
14.900	0.11	0.11	0.11	0.11	0.11
15.150	0.11	0.11	0.11	0.10	0.10

Subsection: Pond Routed Hydrograph (total out) Return Event: 25 years
Label: PO-2 (OUT) Storm Event: 25-yr

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)
15.400	0.10	0.10	0.10	0.10	0.10
15.650	0.10	0.09	0.09	0.09	0.09
15.900	0.09	0.09	0.09	0.09	0.08
16.150	0.08	0.08	0.08	0.08	0.08
16.400	0.08	0.08	0.08	0.08	0.08
16.650	0.08	0.08	0.08	0.08	0.08
16.900	0.08	0.07	0.07	0.07	0.07
17.150	0.07	0.07	0.07	0.07	0.07
17.400	0.07	0.07	0.07	0.07	0.07
17.650	0.07	0.07	0.07	0.07	0.07
17.900	0.07	0.07	0.07	0.07	0.06
18.150	0.06	0.06	0.06	0.06	0.06
18.400	0.06	0.06	0.06	0.06	0.06
18.650	0.06	0.06	0.06	0.06	0.06
18.900	0.06	0.06	0.06	0.06	0.06
19.150	0.06	0.06	0.05	0.05	0.05
19.400	0.05	0.05	0.05	0.05	0.05
19.650	0.05	0.05	0.05	0.05	0.05
19.900	0.05	0.05	0.05	0.05	0.05
20.150	0.05	0.05	0.05	0.05	0.05
20.400	0.05	0.05	0.05	0.05	0.05
20.650	0.05	0.05	0.05	0.05	0.05
20.900	0.05	0.05	0.05	0.05	0.05
21.150	0.05	0.05	0.05	0.05	0.05
21.400	0.05	0.04	0.04	0.04	0.04
21.650	0.04	0.04	0.04	0.04	0.04
21.900	0.04	0.04	0.04	0.04	0.04
22.150	0.04	0.04	0.04	0.04	0.04
22.400	0.04	0.04	0.04	0.04	0.04
22.650	0.04	0.04	0.04	0.04	0.04
22.900	0.04	0.04	0.04	0.04	0.04
23.150	0.04	0.04	0.04	0.04	0.04
23.400	0.04	0.04	0.04	0.04	0.04
23.650	0.04	0.04	0.04	0.04	0.04
23.900	0.04	0.04	0.04	(N/A)	(N/A)

Peak Discharge	4.99 ft³/s
Time to Peak	11.950 hours
Hydrograph Volume	0.291 ac-ft

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)
4.750	0.00	0.00	0.00	0.00	0.00
5.000	0.00	0.00	0.00	0.00	0.00
5.250	0.00	0.00	0.00	0.00	0.01
5.500	0.01	0.01	0.01	0.01	0.01
5.750	0.01	0.01	0.01	0.01	0.01
6.000	0.01	0.01	0.01	0.01	0.01
6.250	0.01	0.01	0.01	0.01	0.01
6.500	0.01	0.02	0.02	0.02	0.02
6.750	0.02	0.02	0.02	0.02	0.02
7.000	0.02	0.02	0.02	0.02	0.02
7.250	0.02	0.02	0.02	0.02	0.02
7.500	0.03	0.03	0.03	0.03	0.03
7.750	0.03	0.03	0.03	0.03	0.03
8.000	0.03	0.03	0.03	0.03	0.03
8.250	0.03	0.04	0.04	0.04	0.04
8.500	0.04	0.04	0.04	0.04	0.04
8.750	0.04	0.05	0.05	0.05	0.05
9.000	0.05	0.05	0.06	0.06	0.06
9.250	0.07	0.07	0.07	0.07	0.07
9.500	0.07	0.07	0.08	0.08	0.08
9.750	0.08	0.08	0.08	0.09	0.09
10.000	0.09	0.09	0.10	0.10	0.10
10.250	0.11	0.11	0.11	0.12	0.12
10.500	0.13	0.13	0.14	0.15	0.16
10.750	0.16	0.17	0.18	0.19	0.19
11.000	0.20	0.21	0.22	0.23	0.25
11.250	0.26	0.28	0.30	0.32	0.34
11.500	0.35	0.41	0.68	1.02	1.45
11.750	1.96	2.52	3.43	4.58	4.99
12.000	4.74	3.70	1.96	0.96	0.81
12.250	0.72	0.66	0.62	0.57	0.52
12.500	0.47	0.43	0.41	0.40	0.38
12.750	0.37	0.35	0.34	0.33	0.32
13.000	0.30	0.29	0.28	0.27	0.27
13.250	0.26	0.25	0.25	0.24	0.23
13.500	0.23	0.22	0.22	0.21	0.21
13.750	0.20	0.20	0.19	0.19	0.18
14.000	0.18	0.17	0.17	0.17	0.17
14.250	0.16	0.16	0.16	0.16	0.16

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)
14.500	0.15	0.15	0.15	0.15	0.15
14.750	0.15	0.15	0.14	0.14	0.14
15.000	0.14	0.14	0.14	0.13	0.13
15.250	0.13	0.13	0.13	0.13	0.13
15.500	0.13	0.13	0.12	0.12	0.12
15.750	0.12	0.12	0.12	0.12	0.11
16.000	0.11	0.11	0.11	0.11	0.11
16.250	0.11	0.10	0.10	0.10	0.10
16.500	0.10	0.10	0.10	0.10	0.10
16.750	0.10	0.10	0.10	0.10	0.10
17.000	0.10	0.10	0.09	0.09	0.09
17.250	0.09	0.09	0.09	0.09	0.09
17.500	0.09	0.09	0.09	0.09	0.09
17.750	0.09	0.09	0.09	0.09	0.09
18.000	0.08	0.08	0.08	0.08	0.08
18.250	0.08	0.08	0.08	0.08	0.08
18.500	0.08	0.08	0.08	0.08	0.08
18.750	0.08	0.08	0.07	0.07	0.07
19.000	0.07	0.07	0.07	0.07	0.07
19.250	0.07	0.07	0.07	0.07	0.07
19.500	0.07	0.07	0.07	0.07	0.07
19.750	0.06	0.06	0.06	0.06	0.06
20.000	0.06	0.06	0.06	0.06	0.06
20.250	0.06	0.06	0.06	0.06	0.06
20.500	0.06	0.06	0.06	0.06	0.06
20.750	0.06	0.06	0.06	0.06	0.06
21.000	0.06	0.06	0.06	0.06	0.06
21.250	0.06	0.06	0.06	0.06	0.06
21.500	0.06	0.06	0.06	0.06	0.06
21.750	0.06	0.06	0.06	0.06	0.06
22.000	0.06	0.06	0.05	0.05	0.05
22.250	0.05	0.05	0.05	0.05	0.05
22.500	0.05	0.05	0.05	0.05	0.05
22.750	0.05	0.05	0.05	0.05	0.05
23.000	0.05	0.05	0.05	0.05	0.05
23.250	0.05	0.05	0.05	0.05	0.05
23.500	0.05	0.05	0.05	0.05	0.05
23.750	0.05	0.05	0.05	0.05	0.05
24.000	0.05	(N/A)	(N/A)	(N/A)	(N/A)

Index

C

CM-1 (Unit Hydrograph Summary, 1 years)...11, 12, 13, 14

CM-1 (Unit Hydrograph Summary, 10 years)...15, 16, 17, 18

CM-1 (Unit Hydrograph Summary, 100 years)...23, 24, 25, 26

CM-1 (Unit Hydrograph Summary, 25 years)...19, 20, 21, 22

Composite Outlet Structure - 1 (Composite Rating Curve, 1 years)...38

Composite Outlet Structure - 1 (Individual Outlet Curves, 1 years)...34, 35, 36, 37

Composite Outlet Structure - 1 (Outlet Input Data, 1 years)...31, 32, 33

M

Master Network Summary...1, 2

My Storms (Time-Depth Curve, 1 years)...7, 8

My Storms (Time-Depth Curve, 10 years)...5, 6

My Storms (Time-Depth Curve, 100 years)...3, 4

My Storms (Time-Depth Curve, 25 years)...9, 10

P

PO-2 (Elevation-Area Volume Curve, 1 years)...27

PO-2 (Elevation-Area Volume Curve, 10 years)...28

PO-2 (Elevation-Area Volume Curve, 100 years)...30

PO-2 (Elevation-Area Volume Curve, 25 years)...29

PO-2 (Elevation-Volume-Flow Table (Pond), 1 years)...39

PO-2 (IN) (Level Pool Pond Routing Summary, 1 years)...40

PO-2 (IN) (Level Pool Pond Routing Summary, 10 years)...41

PO-2 (IN) (Level Pool Pond Routing Summary, 100 years)...43

PO-2 (IN) (Level Pool Pond Routing Summary, 25 years)...42

PO-2 (OUT) (Pond Routed Hydrograph (total out), 1 years)...44, 45

PO-2 (OUT) (Pond Routed Hydrograph (total out), 10 years)...46, 47

PO-2 (OUT) (Pond Routed Hydrograph (total out), 100 years)...50, 51

PO-2 (OUT) (Pond Routed Hydrograph (total out), 25 years)...48, 49

APPENDIX C –STORMWATER QUALITY

WORKSHEET 1A: REQUIRED LEVEL OF SERVICE - DEVELOPED SITE

Project: By: Date:

Location: Checked: Date:

1. Required Treatment Area

A. Total Area Disturbed by Redevelopment Activity (ac.)

Disturbed Area Description	Acres
Building Addition and Environmental Lab	0.60
"1A" Total:	0.60

B. Existing Impervious Area Inside Disturbed Area (ac.)

Existing Impervious Area Description	Acres
Concrete pads and sheds	0.02
"1B" Total:	0.02

C Required Treatment Area (ac.)

"1A" Total Less "1B" Total "1C" 0.58

2. Percent Impervious in Postdevelopment Condition and Level of Service (LS)

A. Total Postdevelopment Impervious Area Inside Disturbed Area (ac.)

Postdevelopment Impervious Area Description	Acres
Building addition and concrete sidewalks	0.25
"2A" Total:	0.25

B. Existing Impervious Area Inside Disturbed Area (ac.)

"1B" Total: 0.02

C. Net Increase in Impervious Area (ac.)

"2A" Total Less "1B" Total "2C" 0.23

D. Percent Impervious

Net Increase in Impervious Area / Required Treatment Area

"2C"/"1C" x 100 40 (Round to Integer)

E. Level of Service

Use Percent Impervious to Enter Table XX **LS =** 5.4

3. Minimum Required Total Value Rating of BMP Package

Total Value Rating = LS x Required Treatment Area **VR =** 3.13

WORKSHEET 2: DEVELOP MITIGATION PACKAGE(S) THAT MEET THE REQUIRED LS

Project: By: Date:
Location: Checked: Date:
Sheet __ of __

1. **Required LS (New Development, Wksht 1) or Total VR (Redevelopment, Wksht 1A):** 3.13

   Note: Various BMPs may alter CN of proposed development, and LS; recalculate both if applicable.

2. **Proposed BMP Option Package No. ___**

Cover/BMP Description	Treatment Area	VR from Table 4.4 or 4.6[1]	Product of VR x Area
Extended Wet Detention	0.14	5.0	0.70
Native Vegetation + EWDB	0.20	10.25	2.05
Native Vegetation	0.07	9.25	0.65
Total[2]:	0.46	**Total:**	3.40
		***Weighted VR:**		= total product/total a

[1] VR calculated for final BMP only in Treatment Train.
[2] Total treatment area cannot exceed 100 percent of the actual site area.
* Blank In Redevelopment

Meets required LS (Yes/No)? Yes (If No, or if additional options are being tested, proceed below.)

3. **Proposed BMP Option Package No. ___**

Cover/BMP Description	Treatment Area	VR from Table 4.4 or 4.6[1]	Product of VR x Area
Total[2]:		**Total:**	
		***Weighted VR:**		= total product/total a

[1] VR calculated for final BMP only in Treatment Train.
[2] Total treatment area cannot exceed 100 percent of the actual site area.
* Blank In Redevelopment

Meets required LS (Yes/No)? (If No, or if additional options are being tested, move to next sheet.)

Public Notice Letter

DATE: January 12, 2022
SUBJECT: 7500 Mission Rd
Prairie Village, KS 66208
Johnson County, KS

Dear Property Owner:

This letter is intended to provide a public notice to surrounding property owners within 200' per the attached boundary map for the proposed changes to the existing Shawnee Mission East High School, located at 7500 Mission Road, in Prairie Village, Kansas. Incite Design Studio, on behalf of the owner (Shawnee Mission School District), has filed an application with the City Planning Commission for site plan approval. The Owner intends to construct a small building addition to the north side of the school. The anticipated scope is to include a multipurpose space and classrooms to facilitate their space needs while providing an accessible path of travel for students. The addition is supplemented with exterior improvements to their environmental learning space which is directly adjacent to it. The total addition is approximately 7600 SF and will not affect any site access or parking. The application will be heard by the City Planning Commission on Tuesday, February 1st.

You are invited to attend an informal neighborhood meeting on Thursday, January 20th, at 6pm. The meeting will be held virtually, due to the on-going Covid-19 pandemic. Please use the URL listed below to attend the online virtual meeting. If you have any questions, comments or concerns, please contact Anthony Winkelmann at awinkelmann@incitedesignstudio.com.

https://bit.ly/33sUOir

We look forward to meeting with you all virtually to discuss the project.

Sincerely,
incite Design Studio, LLC

Anthony Winkelmann
Project Architect

Attached:
Boundary Map
Exterior Rendering
Overall Site Plan
Enlarged Site Plan

January 20, 2022
Shawnee Mission East High – Neighborhood Meeting

Attendees
Anthony Winkelmann – Project Architect, incite Design Studio
Duane Cash – Client Leader, incite Design Studio
Joe Gilhaus – Deputy Superintendent, SMSD
Tyler Clubb – Director of Facilities, SMSD
Jason Peres – Head Principal, SM East High
Scott Mead – Project Manager, Newkirk Novak Construction
Sawyer Warren – Project Engineer, Newkirk Novak Construction

The meeting began at 6pm. All listed attendees were available for questions at the start of the meeting. We waited for people to join the meeting. Though no one joined, at 6:15pm I ran through the presentation to the (6) individuals listed above. After the presentation, they left the meeting. That being said, they were available to jump back on if needed. I stayed in the meeting to present and answer any questions. The meeting ended at 7pm. No questions or concerns were presented. In total, no one attended the neighborhood meeting with the exception of the listed project design team.