PERSPECTUS

MEMO

To	**Rocky River Planning Commission**
From	
Date	
Re:	Submittal for Final Planning Commission Meeting – August 19, 2025

Notes/Comments

Attached is our submittal package for the Planning Commission meeting scheduled for August 19, 2025. We are seeking Final Planning Commission approval.

The proposed project involves the demolition of the existing single-story, approximately 10,016 square foot, 4-bay fire station. In its place, a new two-story fire station with a footprint of approximately 15,949 square feet and six apparatus bays will be constructed. The property is zoned Public Facilities District, which permits this type of use.

The existing City Hall complex structures vary in height as follows:

- **City Hall:** ±26 feet
- **Municipal Court:** ±40 and ±45 feet
- **Police Station:** ±30 feet
- **Proposed New Fire Station:** ±35 feet

As part of the redevelopment, 30 existing parking spaces will be removed and replaced with 23 new spaces, resulting in a net loss of 7 parking spaces. These spaces are intended for use by fire department personnel only.

Included in the package are the following items:

- Cover Letter
- Application
- Vicinity Map
- Regional Context Map
- Existing Photos
- Overall Exterior Elevations
- Materials Board
- Perspective Rendering R-1 through R-4
- Existing Conditions Survey prepared by Bramhall Engineering
- Civil: C0.0 General Notes and Legends
- Civil: C1.0 Existing Conditions and Demolition Plan
- Civil: C1.1 Site Layout Plan
- Civil: C1.2 Utility Plan
- Civil: C1.3 Grading Plan
- Civil: C1.4 SWPP Plan
- Civil: C1.5 Construction Details
- Civil: C1.6 Construction Details
- Civil: ES1.0 SWPP Plan Details
- Civil: ES1.1 SWPP Plan Details
- Architectural: A-010 Architectural Site Plan

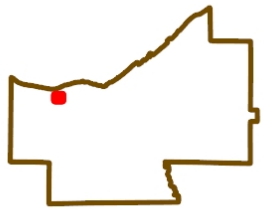
- Architectural: A-111 Floor Plans- Basement, First Floor & Equipment Platforms
- Architectural: A-112 Floor Plan- Second Floor
- Architectural: A-113 Roof Plan
- Architectural: A-201 Exterior Elevations
- Architectural: A-311 Wall Sections and Details
- Architectural: A-312 Wall Sections and Details
- Architectural: A-313 Wall Sections and Details
- Architectural: A-314 Wall Sections and Details
- Architectural: A-315 Wall Sections and Details
- Electrical: ES-101 Electrical Site Plan
- Electrical: Site Lighting Calculations
- Electrical: Exterior Lighting Cut Sheets to match Police Station
- Landscape: L100 Landscape Plan
- Landscape: Plant Selections

Please feel free to contact us with any questions regarding the submittal.

VICINITY MAP

Rocky River Fire Station

Cuyahoga County GIS Viewer



Date Created: 4/1/2025

Legend

- Municipalities
- Platted Centerline
- Parcel
- Private Road

REGIONAL CONTEXT MAP

1,128 0 564 1,128 Feet

Projection:
WGS_1984_Web_Mercator_Auxiliary_Sphere

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.
THIS MAP IS NOT TO BE USED FOR NAVIGATION

Cuyahoga County Enterprise GIS
PUTTING CUYAHOGA COUNTY ON THE MAP

EXISTING GENERATOR (POLICE)

EXISTING POLICE STATION

EXISTING CITY HALL/ FIRE STATION

EXISTING FIRE STATION (TO BE DEMOLISHED)

EXISTING FIRE STATION (TO BE DEMOLISHED)

EXISTING GENERATOR (CITY HALL)

EXISTING MUNICIPAL COURT

EXISTING MUNICIPAL COURT

EXISTING POLICE STATION

EXISTING CITY HALL

PERSPECTUS

mull & weithman architects, inc.

New Fire Station
City of Rocky River

Project No. 24-114
Date 6/3/2025

Existing Photos

A-1

EXISTING POLICE STATION

EXISTING CITY HALL

PROPOSED FIRE STATION

1 A-2 OVERALL UNFOLDED CONCEPT ELEVATION
Scale: 1/16" = 1'-0"

PERSPECTUS

M&W mull & weithman architects, inc.

New Fire Station
City of Rocky River

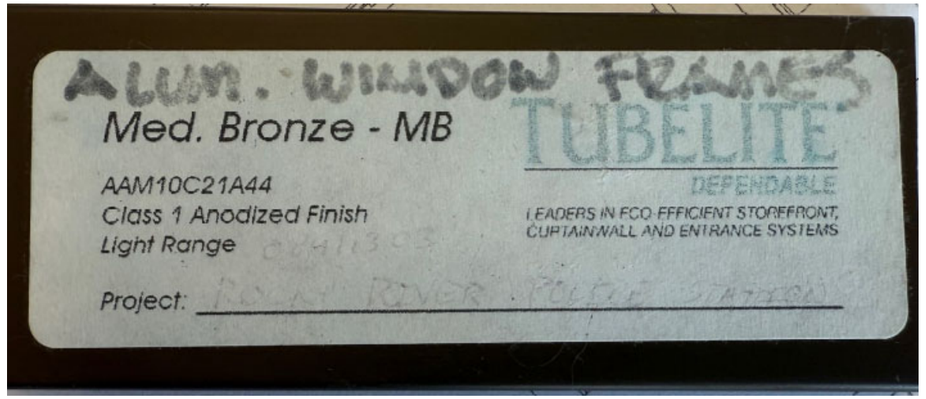
Project No. 24-114
Date 08-04-2025

Exterior Elevations

A-2

Face Brick
(Match existing Police)

Stone trim
(Match existing Police)



Window Frames
(Match existing Police)

Parapet coping
(Match existing Police)

PERSPECTUS

New Fire Station
City of Rocky River

Project No. 24-114
Date 08/04/2025

Perspective Rendering R-1

PERSPECTUS

New Fire Station
City of Rocky River

Project No. 24-114
Date 08/04/2025

Perspective Rendering **R-2**

PERSPECTUS

New Fire Station
City of Rocky River

Project No. 24-114
Date 08/04/2025

Perspective Rendering **R-3**

PERSPECTUS

New Fire Station
City of Rocky River

Project No. 24-114
Date 08/04/2025

Perspective Rendering **R-4**

LEGEND

- CENTERLINE
- RIGHT–OF–WAY
- PROPERTY LINE
- EX. PAVEMENT EDGE
- EX. GAS
- EX. SANITARY
- EX. STORM
- EX. WATER
- EX. OVERHEAD UTILITIES
- EX. FIBER OPTIC
- EX. TELEPHONE
- EX. BUILDING
- EX. GUY WIRE
- EX. FENCE
- EX. 1FT CONTOUR
- EX. 5FT CONTOUR
- EX. MANHOLE
- EX. CATCH BASIN
- EX. FIRE HYDRANT
- EX. WATER VALVE
- EX. WATER METER
- EX. MONITORING WELL
- EX. SPRINKLER BOX
- EX. TELEPHONE BOX
- EX. CLEANOUT
- EX. BENCHMARK
- EX. GAS VALVE
- EX. SIGN
- EX. MAILBOX
- CONTROL POINT
- EX. ADA RAMP
- EX. LAMP POST
- EX. AIR CONDITIONER
- EX. BOLLARD
- EX. TRAFFIC PULL BOX
- EX. TRAFFIC SIGNAL BOX
- EX. MASTARM POLE
- EX. GUY ANCHOR
- EX. UTILITY POLE
- EX. LIGHT POLE
- EX. UTILITY AND LIGHT POLE
- EX. TREE (DECIDUOUS)
- EX. TREE (CONIFER)
- EX. BUSH
- FF FINISHED FLOOR ELEVATION

GRAPHIC SCALE
0 30 60
15 (IN FEET)
SCALE: 1" = 30'

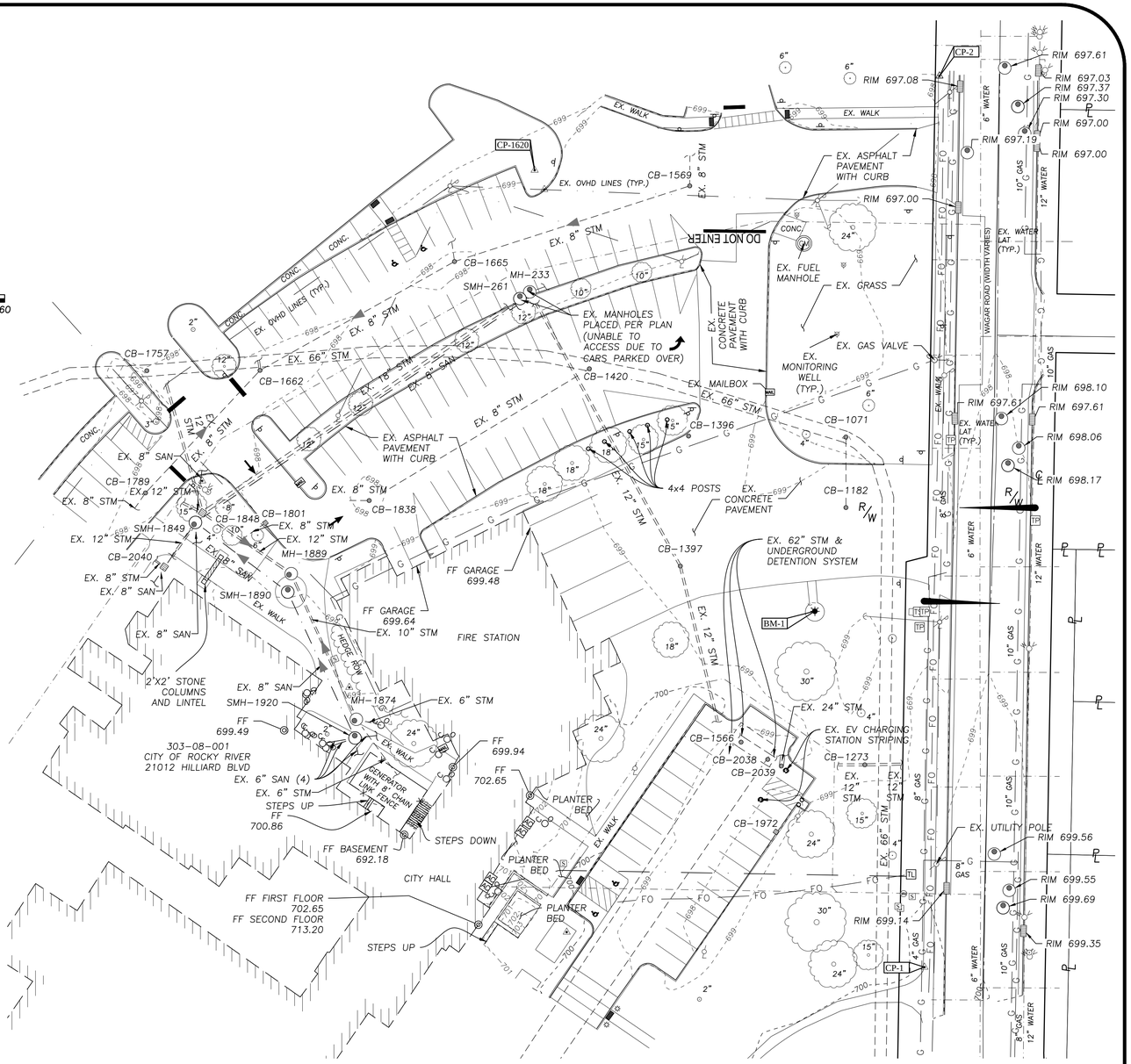
EXISTING STORM STRUCTURE TABLE

STRUCTURE NAME	RIM	INVERT(S)
CB–1071	RIM 697.86	66" RCP (SE) INV.: 681.86 66" RCP (W) INV.: 681.86 8" PVC (S) INV.: 692.36
CB–1182	RIM 698.46	8" PVC (N) INV.: 694.41
CB–1273	RIM 698.48	12" HDPE (W) INV.: 688.78 12" HDPE (E) INV.: 688.88
CB–1396	RIM 698.19	NO PIPES VISIBLE
CB–1397	RIM 698.46	12" RCP (NW) INV.: 692.21 12" RCP (S) INV.: 692.11
CB–1420	RIM 698.09	8" PVC (SW) INV.: 695.19
CB–1566	RIM 698.55	62"" HDPE (NW) INV.: 690.30 62"" HDPE (SE) INV.: 690.30
CB–1569	RIM 698.45	8" PVC (W) INV.: 695.10 8" PVC (N) INV.: 695.60
CB–1662	RIM 697.68	8" PVC (NE) INV.: 692.83 8" PVC (SW) INV.: 692.83 10" PVC (N) INV.: 693.28
CB–1665	RIM 697.84	8" PVC (E) INV.: 694.29 8" PVC (SW) INV.: 694.24 8" PVC (N) INV.: 694.34
CB–1757	RIM 697.94	UNABLE OPEN
CB–1789	RIM 697.45	8" PVC (NE) INV.: 693.35 8" PVC (SW) INV.: 693.45
CB–1801	RIM 697.98	8" PVC (SW) INV.: 693.63
CB–1838	RIM 697.78	8" PVC (W) INV.: 694.18
CB–1848	RIM 698.10	12" PVC (SE) INV.: 690.40 12" RCP (N) INV.: 689.90 12" PVC (SW) INV.: 690.30 18" VCP (NE) INV.: 690.40 12" VCP (NW) INV.: 691.25
CB–1972	RIM 697.37	UNABLE TO OPEN DUE TO CAR
CB–2038	RIM 698.45	62"" HDPE (SE) INV.: 690.25 62"" HDPE (NW) INV.: 690.25
CB–2039	RIM 699.42	24" HDPE (N) INV.: 689.25 6" PVC Pipe (SW) INV.: 691.65*
CB–2040	RIM 698.57	8" PVC (NW) INV.: 694.42
MH–1874	RIM 699.13	6" PVC (SE) INV.: 691.83 10" PVC (NW) INV.: 690.63 6" PVC (E) INV.: 691.03
MH–1889	RIM 698.89	10" PVC (SE) INV.: 690.44 12" PVC (NW) INV.: 690.09

* ORIFICE IN WALL, TOP OF WALL 694.40

EXISTING SANITARY STRUCTURE TABLE

STRUCTURE NAME	RIM	INVERT(S)
SMH–1849	RIM 698.27	8" PVC (SE) INV.: 688.97 8" VCP (SW) INV.: 688.87 8" VCP (S) INV.: 689.17 8" VCP (N) INV.: 692.02 8" VCP (NE) INV.: 688.87
SMH–1890	RIM 698.98	8" PVC (NW) INV.: 689.03 8" VCP/PVC (SE) INV.: 689.08
SMH–1920	RIM 699.13	6" VCP (W) INV.: 696.13 6" VCP (W) INV.: 694.13 8" VCP (S) INV.: 689.18 8" VCP/PVC (NW) INV.: 689.18 8" VCP (E) INV.: 689.18



OHIO UTILITIES PROTECTION SERVICE	UNDERGROUND UTILITIES
BEFORE YOU DIG ANYWHERE IN OHIO! CALL 1-800-362-2764 OR 8-1-1 (TOLL FREE) OHIO LAW REQUIRES 48 HOURS BUT NO MORE THAN 10 WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, BLAST OR DEMOLISH (NON MEMBERS MUST BE CALLED DIRECTLY) WWW.OUPS.ORG TICKET NOS.: B512602244-00B AND B512602243-00B	Contact Two Working Days Before You Dig OHIO811.org Before You Dig OHIO811, 8-1-1, or 1-800-362-2764 (Non-members must be called directly)

EXISTING UNDERGROUND UTILITIES NOTE:

THE SIZE & LOCATION, BOTH HORIZONTAL AND VERTICAL, OF THE UNDERGROUND UTILITIES SHOWN HEREON, HAVE BEEN OBTAINED BY A SEARCH OF AVAILABLE RECORDS. VERIFICATION BY FIELD OBSERVATION HAS BEEN CONDUCTED WHERE PRACTICAL. HOWEVER, BRAMHALL ENGINEERING AND SURVEYING COMPANY DOES NOT GUARANTEE THE COMPLETENESS NOR ACCURACY THEREOF.

SURVEY NOTE:

A BOUNDARY SURVEY PURSUANT TO CHAPTER 4733–37 OF THE OHIO ADMINISTRATIVE CODE HAS NOT BEEN PERFORMED BY BRAMHALL ENGINEERING & SURVEYING COMPANY. THIS PLAN IS BASED UPON AVAILABLE COUNTY INFORMATION.

BENCHMARKS

TOP TURN NUT ON HYDRANT
ELEVATION = 701.42

PROJECT DATUM

OHIO STATE PLANE COORDINATE SYSTEM NORTH ZONE (3401)
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988

CONTROL POINTS

CONTROL POINT NO. 1
MAGNETIC NAIL SET
N: 656744.21
E: 2145919.44

CONTROL POINT NO. 2
MAGNETIC NAIL SET
N: 657169.81
E: 2145926.62

CONTROL POINT NO. 1620
SCP REBAR FOUND
N: 657124.87
E: 2145733.32

REVISION	DATE:	BY:	DESCRIPTION:
	2025-05-29	AMK	ISSUE TO CLIENT

DRAWN BY: CAT
CHECKED BY: AMK

BRAMHALL
ENGINEERING AND SURVEYING COMPANY
801 MOORE ROAD AVON, OHIO 44011
(440) 934 - 7878 (440) 934 - 7879 FAX

PREPARED FOR:
CITY OF ROCKY RIVER
21012 HILLIARD BLVD
ROCKY RIVER, OH 44116

ROCKY ROVER CITY HALL COMPLEX
EXISTING CONDITIONS
CITY OF ROCKY RIVER, COUNTY OF CUYAHOGA, STATE OF OHIO

SHEET 1 OF 1
JOB NO. 25-6324

J:\25\6324 Rocky River City Hall Complex\DRAWINGS\25-6324 Survey Master with labels.dwg, Plotted: May 29, 2025 - 8:23am

FULL SIZE SHEET (30"x42")

PERSPECTUS

PRELIMINARY
NOT FOR CONSTRUCTION

Karpinski ENGINEERING
3135 Euclid Ave.
Cleveland, OH 44115
216-391-3700 | karpinskieng.com

1. SCOPE OF WORK
THE FOLLOWING IS INTENDED TO CONVEY A GENERAL DESCRIPTION OF THE WORK TO BE PERFORMED FOR THIS PROJECT:

THE CONTRACTOR'S RESPONSIBILITIES INCLUDE, BUT ARE NOT LIMITED TO, CONSTRUCTION PROCEDURES, MATERIALS, INSTALLATION SEQUENCE, AND COORDINATION WITH THE OWNER.

THE CONTRACTOR SHALL SECURE AND PAY FOR ANY AND ALL LICENSES, GOVERNMENT FEES, AND PERMITS THAT MAY BE REQUIRED TO PROPERLY EXECUTE AND COMPLETE THE WORK. COMPLY WITH ALL APPLICABLE CODES, RULES, ORDINANCES AND OTHER LEGAL REQUIREMENTS.

CONTRACTOR SHALL IMMEDIATELY LOCATE ALL REFERENCE POINTS, LAYOUT WORK, AND BE RESPONSIBLE FOR ALL MEASUREMENTS AND OTHER WORK TO BE EXECUTED UNDER THE CONTRACT. VERIFY ALL FIGURES SHOWN ON THE PLANS, VERIFY ALL DIMENSIONS OF ANY EXISTING AND NEW WORK, BE RESPONSIBLE FOR THEIR ACCURACY AND SUBMIT ANY DIFFERENCES FOUND TO THE OWNER BEFORE PROCEEDING WITH THE WORK, NO EXTRA COMPENSATION WILL BE PERMITTED BECAUSE OF DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND MEASUREMENTS INDICATED ON THE DRAWINGS. (SEE NOTE 3 ABOUT PLAN DISCREPANCIES)

2. STANDARDS & SPECIFICATIONS
CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AND / OR MATERIAL INSIDE OR OUTSIDE CONTRACT LIMIT / PROPERTY LINE DUE TO CONSTRUCTION. ALL WORK MUST BE IN ACCORDANCE WITH LOCAL AND / OR STATE CODES AND REGULATIONS. CONTRACTOR IS TO COMPLY WITH ODOT ITEM 107.10. WORK IS TO BE SATISFACTORY TO THE PROPERTY OWNER.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATIONS OF THE CITY, AND THE LATEST EDITION OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS. IN THE CASE OF A CONFLICT BETWEEN CITY AND ODOT REQUIREMENTS, THE CITY REQUIREMENTS WILL TAKE PRECEDENCE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

3. PLAN DISCREPANCIES
ANY DISCREPANCIES FROM THE PLAN INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY SO THAT APPROPRIATE ADJUSTMENTS IN ALIGNMENT AND / OR GRADE MAY BE MADE PRIOR TO THE START OF CONSTRUCTION.

FAILURE BY THE CONTRACTOR TO VERIFY AND / OR DETERMINE EXISTING INFORMATION AS INDICATED WILL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR ANY CHANGES NECESSARY TO COMPLETE THE WORK SPECIFIED WITHOUT ADDITIONAL COMPENSATION.

4. PLAN MODIFICATION
ANY MODIFICATIONS TO THE NOTES, OR CHANGES TO THE WORK AS SHOWN ON THESE PLANS MUST HAVE PRIOR WRITTEN APPROVAL OF THE ENGINEER.

5. SAFETY
IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF THE RESIDENTS (INCLUDING EMPLOYEES), WORKERS, GENERAL PUBLIC AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.

THE CONTRACTOR SHALL PROPERLY SUPPORT AND / OR MAINTAIN ALL EXCAVATIONS PER APPLICABLE SAFETY REQUIREMENTS AND COMPLY WITH ALL OSHA REGULATIONS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF THE PROJECT'S ASSIGNED "COMPETENT PERSON" IN OSHA EXCAVATION STANDARDS.

PUBLIC STREETS SHALL BE KEPT CLEAN AND FREE OF DEBRIS (MUD, STONE, ETC.) AT ALL TIMES.

THE CONSTRUCTION MANAGER SHALL ALERT ALL LOCAL EMERGENCY AGENCIES (FIRE, POLICE, AMBULANCE, ETC.) OF THE NATURE OF THE PROPOSED PROJECT PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY. ACCESS FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.

6. BASE MAPPING
SURVEY INFORMATION HAS BEEN PROVIDED BY BRAMHALL ENGINEERING AND SURVEYING COMPANY.

7. EXISTING UTILITIES
VIEW THE SITE AND COORDINATE WITH THE OWNER REGARDING LOCATION OF EXISTING FACILITIES AND ANY POSSIBLE UTILITY SERVICE INTERRUPTION OR RELOCATION. THE CONTRACTOR'S RESPONSIBILITIES INCLUDE, BUT ARE NOT LIMITED TO, THE INVESTIGATION, VERIFICATION OF EXISTING UTILITY DIMENSIONS AND LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. (SEE EXISTING CONDITIONS NOTE)

THE CONTRACTOR SHALL NOTIFY THE OHIO UTILITY PROTECTION SERVICE (OUPS) AT 1-800-362-2764, CITY ENGINEER, AND ALL PRIVATE UTILITY OWNERS A MINIMUM OF 48 HOURS PRIOR TO ANY EARTH DISTURBING ACTIVITY.

ALL UTILITY INFORMATION SHOWN ON THESE PLANS IS BASED UPON THE SURVEY COMPLETED BY BRAMHALL ENGINEERING AND SURVEYING COMPANY, AND RECORD DRAWINGS, AND IS PROVIDED AS A REFERENCE ONLY. IT IS BELIEVED THAT THESE LOCATIONS ARE ESSENTIALLY CORRECT. HOWEVER, THE OWNER AND ENGINEER DO NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THESE EXISTING UTILITIES. CONTRACTOR MAY DIG TEST PITS AT THEIR OWN EXPENSE.

ALL STORM AND SANITARY LINES THAT ARE TO BE REUSED, ARE TO BE THOROUGHLY CLEANED, FLUSHED, AND TELEVISED. SUBMIT VIDEO TO ENGINEER FOR APPROVAL OF EXISTING PIPING CONDITIONS.

8. EXISTING MONUMENTATION
THE CONTRACTOR SHALL PRESERVE ALL CORNERSTONES, IRON PINS, CONCRETE MONUMENTS AND / OR ANY TYPE OF LAND MONUMENT. ALL MONUMENTS IN THE PROXIMITY OF THE WORK SHALL BE REFERENCED. THE CONTRACTOR SHALL HAVE A REGISTERED SURVEYOR REPLACE / RESET ANY DISTURBED OR DAMAGED MONUMENTS, AND SHALL FURNISH A CERTIFICATION BY A REGISTERED SURVEYOR THAT THE MONUMENTS HAVE BEEN RESTORED TO THEIR ORIGINAL STATE.

9. DEWATERING OPERATIONS
WHEN DEEMED NECESSARY, THE CONTRACTOR MAY PLAN AND INSTALL DEWATERING EQUIPMENT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND PLANS FOR THE INSTALLATION AND SUBSEQUENT REMOVAL OF DEWATERING EQUIPMENT AS MAY BE NECESSARY PER STATE AND LOCAL GOVERNING AGENCIES.

10. INSPECTION
ALL WORK REQUIRED FOR THIS IMPROVEMENT PLAN SHALL BE SUBJECT TO INSPECTION BY THE CITY OR THEIR DESIGNATED REPRESENTATIVE. THE CONTRACTOR SHALL GIVE A 48 HOUR NOTICE BEFORE STARTING ANY WORK ON THIS PROJECT AND SHALL KEEP THE CITY AND THE CONSTRUCTION MANAGER INFORMED OF HIS / HER CONSTRUCTION SCHEDULE. NO WORK SHALL BE PERFORMED AND / OR BURIED UNLESS AN AUTHORIZED INSPECTOR IS PRESENT.

11. CONSTRUCTION NOISE
CONSTRUCTION NOISE ASSOCIATED WITH ANY IMPROVEMENT PROJECT, SHALL BE LIMITED TO LEVELS COMMENSURABLE WITH ADJOINING LAND AND THEIR ASSOCIATED USAGE AS DETERMINED BY THE CITY ENGINEER, IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, ANY POWER-OPERATED CONSTRUCTION-TYPE DEVICE SHALL NOT BE OPERATED BETWEEN THE HOURS OF 7:00 P.M. AND 8:00 A.M, UNLESS AUTHORIZED BY THE CONSTRUCTION MANAGER AND CITY ENGINEER.

CONSTRUCTION HOURS AND ACCEPTABLE NOISE LEVELS ARE TO BE APPROVED BY THE OWNER.

12. DUST CONTROL
THE CONTRACTOR SHALL FURNISH AND APPLY WATER AND CALCIUM CHLORIDE FOR DUST CONTROL AS DIRECTED BY THE CONSTRUCTION MANAGER AND / OR CITY ENGINEER. SUFFICIENT QUANTITIES OF CALCIUM CHLORIDE SHALL BE STORED ON THE JOB SITE AT ALL TIMES TO BE USED FOR DUST CONTROL.

13. MAINTENANCE OF TRAFFIC
THE CONTRACTOR IS TO MAINTAIN ACCESS TO THE FACILITY AT ALL TIMES. THE CONTRACTOR MUST SUBMIT A MAINTENANCE OF TRAFFIC PLAN TO THE OWNER AND CITY (IF APPLICABLE) FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION.

USE SIGNS, BARRICADES, FLAGMEN OR GUARDS AS REQUIRED DURING CONSTRUCTION ACTIVITIES TO ENSURE THE SAFETY FOR ALL VEHICULAR AND PEDESTRIAN TRAFFIC. NO UNMANNED EXCAVATION SHALL BE LEFT UNPROTECTED. ALL TEMPORARY TRAFFIC CONTROL / FLAGGING ARE TO BE IN ACCORDANCE WITH ODOT ITEM 614, AS WELL AS OHIO REVISED CODE SECTION 4571.09.

14. DIMENSION
ALL DIMENSIONS ARE TO EDGE OF PAVEMENT, FACE OF CURB, AND FACE OF BUILDING, UNLESS OTHERWISE NOTED.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REGULATIONS AND RELATIONS TO OTHER WORK BEFORE FABRICATION AND / OR INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT OF WORK.

15. CONSTRUCTION AREA
CONFINE OPERATIONS TO AREAS BEING CONSTRUCTED OR REPAIRED. DO NOT UNREASONABLY ENCUMBER THE SITE WITH MATERIALS OR EQUIPMENT. COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE CONSTRUCTION MANAGER AND OWNER.

TAKE ALL PRECAUTIONS TO PREVENT INTERFERENCE WITH NORMAL OPERATIONS OF THE OWNER. DO NOT BLOCK OR INTERFERE WITH REQUIRED LEGAL EXITING.

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER THAT LOCAL TRAFFIC SHALL HAVE ACCESS THROUGHOUT THE PROJECT IN A MANNER APPROVED BY THE CITY ENGINEER.

NO TRENCH OR EXCAVATION SHALL BE LEFT OPEN OVERNIGHT. OPEN AREAS ARE TO BE BACKFILLED OR STEEL PLATED. IN CASE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH SHALL BE BACKFILLED OR STEEL PLATED AT THE DIRECTION OF THE ENGINEER OR THE AUTHORITY HAVING JURISDICTION. NO TRENCH MAY BE BACKFILLED WITHOUT INSTALLED UTILITIES BEING REVIEWED BY ASSOCIATED INSPECTOR(S).

THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE SITE CLEAN AT ALL TIMES, TAKE RESPONSIBILITY FOR FINAL CLEANING, AND REMOVAL OF ALL TOOLS, EQUIPMENT AND SURPLUS MATERIALS FROM THE SITE AT COMPLETION OF THE WORK. DO NOT STOCKPILE ANY EXCESS CUT MATERIAL THAT IS NOT TO BE USED FOR ON-SITE FILL. HAUL AWAY AND PROPERLY DISPOSE OF ALL EXCESS CUT MATERIAL AT NO ADDITIONAL EXPENSE TO THE OWNER.

16. GENERAL
THE CONTRACTOR SHALL FURNISH A CERTIFICATE FROM A REGISTERED PROFESSIONAL SURVEYOR STATING THAT ALL HORIZONTAL AND VERTICAL CONTROL MONUMENTS AFFECTED BY THE PROJECT WERE REMOVED AND REPLACED TO THEIR ORIGINAL REFERENCE LOCATIONS AND ELEVATIONS. (SEE NOTE 8_EXISTING MONUMENTATION)

ALL ROAD SURFACES, UTILITIES, BUILDINGS, STRUCTURES, SITE CONDITIONS, OR RIGHT-OF-WAYS DISTURBED BY CONSTRUCTION OF ANY PART OF THIS IMPROVEMENT ARE TO BE RESTORED COMPLETELY TO THE BEFORE CONSTRUCTION CONDITION. ALL ITEMS ARE INCLUDED IN THE PAY ITEMS.

ALL EXISTING SITE PAVEMENT MATERIAL REMOVED AS PART OF THIS IMPROVEMENT SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR.

ALL DISTURBED SIGNS, GUARDRAIL, MAIL AND / OR PAPER BOXES, DRIVES AND DRIVE CULVERTS SHALL BE REPAIRED AND / OR REPLACED AS DIRECTED BY THE ENGINEER.

ALL DISTURBED AND / OR DAMAGED STORM SEWER PIPES, STORM SEWER APPURTENANCES, PAVEMENTS, BERMS AND DITCHES SHALL BE REPAIRED AND / OR REPLACED AS DIRECTED BY THE ENGINEER.

ANY DEFECTS IN CONSTRUCTION INCLUDING MATERIALS OR WORKMANSHIP SHALL BE REPLACED OR CORRECTED BY REMOVAL AND REPLACEMENT OR OTHER APPROVED METHOD PRIOR TO ACCEPTANCE BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.

THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO PERFORM THE WORK SPECIFIED IN THE CONTRACT DOCUMENTS.

EXISTING CONDITIONS NOTE

UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN PLOTTED FROM FIELD OBSERVATION AND THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. NEITHER KARPINSKI ENGINEERING OR BRAMHALL ENGINEERING AND SURVEYING COMPANY NOR ANY OF THEIR EMPLOYEES TAKE RESPONSIBILITY FOR THE LOCATION OF ANY UNDERGROUND STRUCTURES AND/OR UTILITIES NOT SHOWN THAT MAY EXIST. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UNDERGROUND STRUCTURES AND/OR UTILITIES LOCATED PRIOR TO EXCAVATION BY CALLING 811. (SEE NOTE 7_EXISTING UTILITIES)

SHOP DRAWING NOTE

ANY PRODUCTS THAT DIFFER FROM THE PLANS OR SPECIFICATIONS SHALL BE SUBMITTED FORMALLY AS A PRODUCT SUBSTITUTION PRIOR TO ISSUING A SHOP DRAWING FOR THE MATERIAL. REVIEW OF SHOP DRAWING DOES INDICATE THE SUBSTITUTE PRODUCT HAS BEEN ACCEPTED WITHOUT FORMAL PRODUCT SUBSTITUTION PROCESS BEING IMPLEMENTED.

ABBREVIATIONS

U.D. = UNDERDRAIN

C.D. = CURB DRAIN

D.S. = DOWNSPOUT

PR = PROPOSED

EX = EXISTING

FF/FFE = FINISH FLOOR ELEVATION

INV = INVERT

LEGEND: CIVIL LINE TYPE

LINE TYPE		DESCRIPTION
EXISTING	PROPOSED	
LOCN	LOCN	APPROXIMATE LIMIT OF CONST.
CATV	CATV	CABLE TELEVISION (UG)
℄	℄	CENTER LINE
COMB	COMB	COMBINATION SEWER LINE
COMM	COMM	COMMUNICATION LINE (UG)
XXX	XXX	CONTOUR (MAJOR)
XXX	XXX	CONTOUR (MINOR)
X	X	FENCE
FS	FS	FILTER SOCK
F	F	FIRE LINE
FM	FM	FORCE MAIN
G	G	GAS LINE
IRRG	IRRG	IRRIGATION
OCF	OCF	ORANGE CONSTRUCTION FENCE
OH	OH	POWER LINE (OVH)
E	E	POWER LINE (UG)
P	P	PROPERTY LINE
R / W	R / W	RIGHT-OF-WAY LINE
	LL	LEASE LINE
SF	SF	SILT FENCE
STEAM	STEAM	STEAM LINE
ST	ST	STORM LINE
SAN	SAN	SANITARY LINE
W	W	WATER LINE
		UNDERDRAIN/CURBDRAIN
	TC	TIME OF CONCENTRATION PATH

LEGEND - CIVIL SYMBOL

SYMBOL		DESCRIPTION
EXISTING	PROPOSED	
		BUILDING
		SIGN
		LAMP POST
		PIPE BOLLARD
		SPOT LOT
		POWER POLE
		CONTROL POINT
		BENCHMARK
		MAIL BOX
		ADA RAMP
E		ELECTRIC PAD
E		ELECTRIC BOX
		CATCH BASIN-SQUARE
		CATCH BASIN-ROUND
TL		TELEPHONE BOX
		MONITORING WELL
		MANHOLE
		CLEANOUT
GV	GV	GAS VALVE
AC		AIR CONDITIONER
		MASTARM POLE
TP		TRAFFIC PULL BOX
TS		TRAFFIC SIGNAL BOX
		EX. TREE (DECIDUOUS)/BUSH
		EX. TREE (CONIFER)
		LIGHT POLE
		UTILITY AND POWER POLE
		GUY ANCHOR
		FIRE HYDRANT
S		SPRINKLER BOX
WV		WATER VALVE
WM		WATER METER

24-114
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Rocky River, Ohio 44116

ISSUE	DATE
Design Development	06-19-2025
Final Planning Commission	08-04-2025

GENERAL NOTES AND LEGENDS

C0.0

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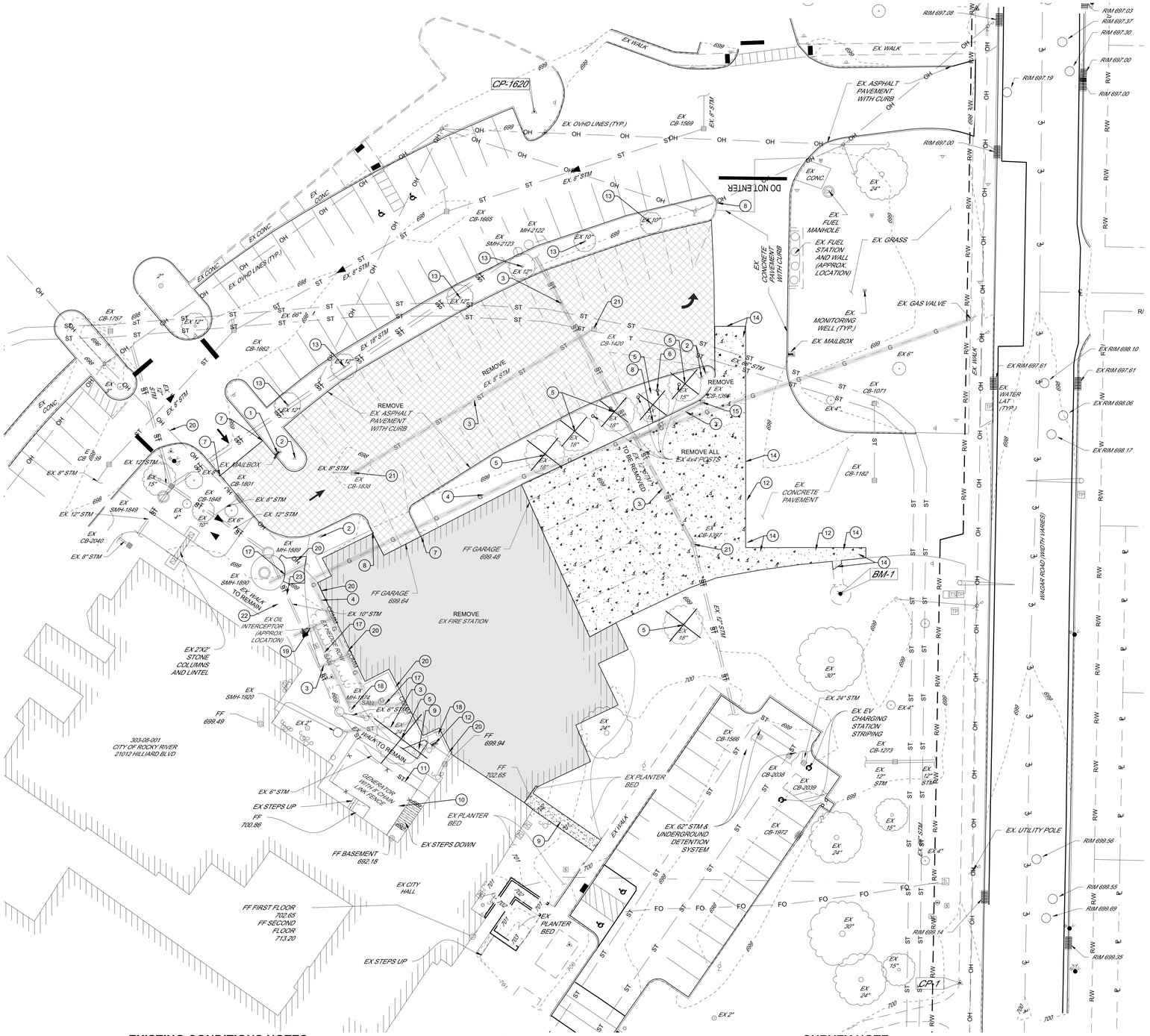

BENCHMARKS AND COORDINATES

CONTROL POINT NO. 1 (CP-1)
MAGNETIC NAIL SET
N: 656744.21
E: 2145919.44

CONTROL POINT NO. 2 (CP-2
MAGNETIC NAIL SET
N: 657169.81
E: 2145926.62

CONTROL POINT NO. 1620 (CP-1620)
SCP REBAR FOUND
N: 657124.87
E: 2145733.32

BENCHMARK #1 (BM-1)
TOP TURN NUT ON HYDRANT
ELEVATION = 701.42

FULL SIZE SHEET (30"x42")
SCALE: 1" = 20'-0"
0 10' 20' 40'

LEGEND

- FULL DEPTH ASPHALT PAVEMENT REMOVAL
- REMOVE BUILDING INCLUDING FOUNDATIONS
- REMOVE CONCRETE
- REMOVE SIDEWALKS
- REMOVE UTILITY PIPING/CONDUIT
- REMOVE TREE

PLAN NOTES

1. RELOCATE MAILBOX DURING CONSTRUCTION AS SHOWN ON SITE PLAN. MAILBOX TO BE INSTALLED AT LOCATION SHOWN ON SITE PLAN ONCE CONSTRUCTION IS COMPLETE.
2. CONTRACTOR STALL REMOVE, PROTECT AND STORE EXISTING SIGN UNTIL IT IS READY TO BE INSTALLED AT THE LOCATION SHOWN ON SITE PLAN
3. REMOVE AND RELOCATE STORM PIPE
4. REMOVE GAS LINE. CONTRACTOR SHALL COORDINATE WITH THE GAS COMPANY TO REMOVE THE GAS LINE PRIOR TO DEMOLITION ENSURE CONTINUOUS SERVICE TO THE PORTION OF THE BUILDING TO REMAIN
5. REMOVE TREE
6. REMOVE 4X4 POSTS (TYP.)
7. BEGIN CURB REMOVAL
8. END CURB REMOVAL
9. REMOVE SIDEWALK
10. RELOCATE GENERATOR
11. REMOVE 8' TALL FENCE AROUND GENERATOR AND PROTECT EXISTING STORM PIPE
12. REMOVE PAVEMENT TO NEAREST JOINT
13. PROTECT TREES IN ISLAND DURING CONSTRUCTION
14. NEATLY SAWCUT CONCRETE/ASPHALT
15. REMOVE STORM STRUCTURE
16. NOT USED
17. REMOVE SANITARY LINE
18. REMOVE CLEAN OUT
19. REMOVE OIL INTERCEPTOR
20. INCOMING FIBER OPTIC COMMUNICATIONS LINE ARE ATTACHED TO THE SIDE OF THE BUILDING. CONTRACTOR IS TO RESUPPORT AND PROTECT THESE CABLES DURING DEMOLISHION AND CONSTRUCTION. CONTRACTOR IS TO WORK WITH OWNERS SERVICE PROVIDERS TO RELOCATE OR REPLACE THESE CABLES
21. REMOVE AND REPLACE CATCH BASIN
22. SANITARY LINE TO BE REMOVED AND REPLACED AS A BID ALTERNATE
23. STORM LINE TO BE REMOVES AND REPLACED AS A BID ALTERNATE

EXISTING STORM STRUCTURES

STRUCTURE NAME	RIM	INVERT(S)
EX CB-1071	RIM 697.86	68" RCP (SE) INV.: 681.86 68" RCP (W) INV.: 681.86 8" PVC (S) INV.: 692.38
EX CB-1182	RIM 698.46	8" PVC (N) INV.: 694.41
EX CB-1073	RIM 698.48	12" HDPE (W) INV.: 688.78 12" HDPE (E) INV.: 688.88
EX CB-1396	RIM 698.19	NO PIPES VISIBLE
EX CB-1397	RIM 698.46	12" RCP (NW) INV.: 692.21 12" RCP (S) INV.: 692.11
EX CB-1420	RIM 698.09	8" PVC (SW) INV.: 695.19
EX CB-1566	RIM 698.55	62" HDPE (NW) INV.: 690.30 62" HDPE (SE) INV.: 690.30
EX CB-1569	RIM 698.45	8" PVC (W) INV.: 695.10 8" PVC (N) INV.: 695.60
EX CB-1662	RIM 697.68	8" PVC (NE) INV.: 692.83 8" PVC (SW) INV.: 692.83 10" PVC (N) INV.: 693.38
EX CB-1665	RIM 697.84	8" PVC (E) INV.: 694.29 8" PVC (SW) INV.: 694.24 8" PVC (N) INV.: 694.34
EX CB-1757	RIM 697.94	66" RCP (E) INV.: 680.58 66" RCP (W) INV.: 680.58
EX CB-1769	RIM 697.45	8" PVC (NE) INV.: 693.35 8" PVC (SW) INV.: 693.45
EX CB-1801	RIM 697.98	8" PVC (SW) INV.: 693.63
EX CB-1838	RIM 697.78	8" PVC (W) INV.: 694.18
EX CB-1848	RIM 698.10	12" PVC (SE) INV.: 690.40 12" RCP (N) INV.: 689.90 12" PVC (SW) INV.: 690.30 15" VCP (NE) INV.: 690.40 12" VCP (NW) INV.: 691.25
EX CB-1972	RIM 697.37	UNABLE TO OPEN DUE TO CAR
EX CB-2038	RIM 698.45	62" HDPE (SE) INV.: 690.25 62" HDPE (NW) INV.: 690.25
EX CB-2039	RIM 698.42	24" HDPE (N) INV.: 688.25 6" PVC Pipe (SW) INV.: 691.65 *
EX CB-2040	RIM 698.57	8" PVC (NW) INV.: 694.42
EX MH-1874	RIM 698.13	6" PVC (SE) INV.: 691.83 10" PVC (NW) INV.: 690.63 6" PVC (E) INV.: 691.03
EX MH-1889	RIM 698.89	10" PVC (SE) INV.: 690.44 12" PVC (NW) INV.: 690.09
EX MH-2122	RIM 698.60	18" VCP (SW) INV.: 688.75 12" VCP (NW) INV.: 692.33 12" VCP/RCP (SE) INV.: 690.75

* ORIFICE IN WALL, TOP OF WALL 694.40

EXISTING SANITARY STRUCTURES

STRUCTURE NAME	RIM	INVERT(S)
EX SMH-1849	RIM 698.27	8" PVC (SE) INV.: 688.97 8" VCP (SW) INV.: 688.87 8" VCP (S) INV.: 688.17 8" VCP (N) INV.: 692.02 8" VCP (NE) INV.: 688.87
EX SMH-1890	RIM 698.98	8" PVC (NW) INV.: 689.03 8" VCP/PVC (SE) INV.: 689.08
EX SMH-1920	RIM 699.13	6" VCP (W) INV.: 696.13 6" VCP (W) INV.: 694.13 8" VCP (S) INV.: 688.18 8" VCP/PVC (NW) INV.: 689.18 8" VCP (E) INV.: 688.18
EX SMH-2123	RIM 698.61	8" VCP (SW) INV.: 688.31 8" VCP (NE) INV.: 688.26

EXISTING CONDITIONS NOTES

A. UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN PLOTTED FROM FIELD OBSERVATION AND THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. NEITHER BRAMHALL ENGINEERING AND SURVEYING COMPANY OR KARPINSKI ENGINEERING NOR ANY OF THEIR EMPLOYEES TAKE RESPONSIBILITY FOR THE LOCATION OF ANY UNDERGROUND STRUCTURES AND/OR UTILITIES NOT SHOWN THAT MAY EXIST. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UNDERGROUND STRUCTURES AND/OR UTILITIES LOCATED PRIOR TO EXCAVATION BY CALLING OHIO UTILITY PROTECTION SERVICES (OUPS) AT 1-800-362-2764 (OHIO811) TWO (2) BUSINESS DAYS PRIOR TO EXCAVATION, AS REQUIRED BY LAW.

B. ALL BENCHMARKS AND TOPOGRAPHY SHOULD BE FIELD VERIFIED BY THE CONTRACTOR. BENCHMARKS SHOWN ON PLAN ESTABLISHED BY OR FOUND BY BRAMHALL ENGINEERING AND SURVEYING COMPANY. CONDITION OF BENCHMARK MUST BE VERIFIED PRIOR TO CONSTRUCTION.

EXISTING UNDERGROUND UTILITIES NOTE:

A. THE SIZE & LOCATION, BOTH HORIZONTAL AND VERTICAL, OF THE UNDERGROUND UTILITIES SHOWN HEREON, HAVE BEEN OBTAINED BY A SEARCH OF AVAILABLE RECORDS. VERIFICATION BY FIELD OBSERVATION HAS BEEN CONDUCTED WHERE PRACTICAL, HOWEVER, BRAMHALL ENGINEERING AND SURVEYING COMPANY DOES NOT GUARANTEE THE COMPLETENESS NOR ACCURACY THEREOF.

GENERAL NOTES

A. UTILITIES: THE CONTRACTOR SHALL GIVE DUE NOTICE TO THE OWNERS OF ALL UTILITIES AND SHALL SEE THAT THEIR PROPERTY IS PROPERLY SUPPORTED AND PROTECTED BEFORE DISTURBING, UNDERMINING, OR INTERFERING WITH THE SAME. AND IN NO CASE SHALL THE SERVICE OF ANY SUCH UTILITY BE DISRUPTED OR INTERFERED WITH, WITHOUT WRITTEN CONSENT OF THE OWNER THEREOF, AND IN CASE OF SEWER, PIPE, CONDUIT, POLE OR OTHER PUBLIC UTILITY PROPERTY IS DAMAGED OR MUST BE MOVED OR SUPPORTED, THE REPAIR, REMOVAL OR SUPPORTING SHALL BE DONE BY THE CONTRACTOR AND SHALL PAY ALL NECESSARY EXPENSE IN CONNECTION THEREWITH.

B. DAMAGES TO THE ADJACENT PROPERTY OR STRUCTURES MUST BE CAREFULLY GUARDED AGAINST,ESPECIALLY IN MAKING EXCAVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE FULL EXTENT, IF THE SAME ARE OCCASIONED THROUGH NEGLECT OR FAILURE ON HIS PART, OR THAT OF ANYONE IN HIS EMPLOY, TO TAKE ALL NECESSARY OR PROPER PRECAUTIONS TO PREVENT THE SAME, AND HE SHALL ASSUME ALL RISK OF DAMAGE TO ANY PORTION OF HIS WORK.

C. ALL EXISTING STRUCTURES INCLUDING PAVEMENT AS CALLED FOR TO BE REMOVED SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL GUIDELINES. ANY BURNING ON-SITE IS PROHIBITED.

SURVEY NOTE

A. A BOUNDARY SURVEY PURSUANT TO CHAPTER 4733-37 OF THE OHIO ADMINISTRATIVE CODE HAS NOT BEEN PERFORMED BY BRAMHALL ENGINEERING & SURVEYING COMPANY. THIS PLAN IS BASED UPON AVAILABLE COUNTY INFORMATION.

BID ALTERNATE NOTES

A. CONTRACTOR SHALL PROVIDE A PRICE FOR THE SANITARY LINE TO BE REMOVED AND REPLACED AS INDICATED ON PLANS AS A BID ALTERNATE

B. CONTRACTOR SHALL PROVIDE A PRICE FOR THE STORM LINE TO BE REMOVED AND REPLACED AS INDICATED ON PLANS AS A BID ALTERNATE

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764 (Non-members must be called directly)
TICKET NOS.: B512602244-00 AND B512602243-00B

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PERSPECTUS

PRELIMINARY
NOT FOR CONSTRUCTION

Karpinski ENGINEERING
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Cleveland, OH 44115
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New Fire Station
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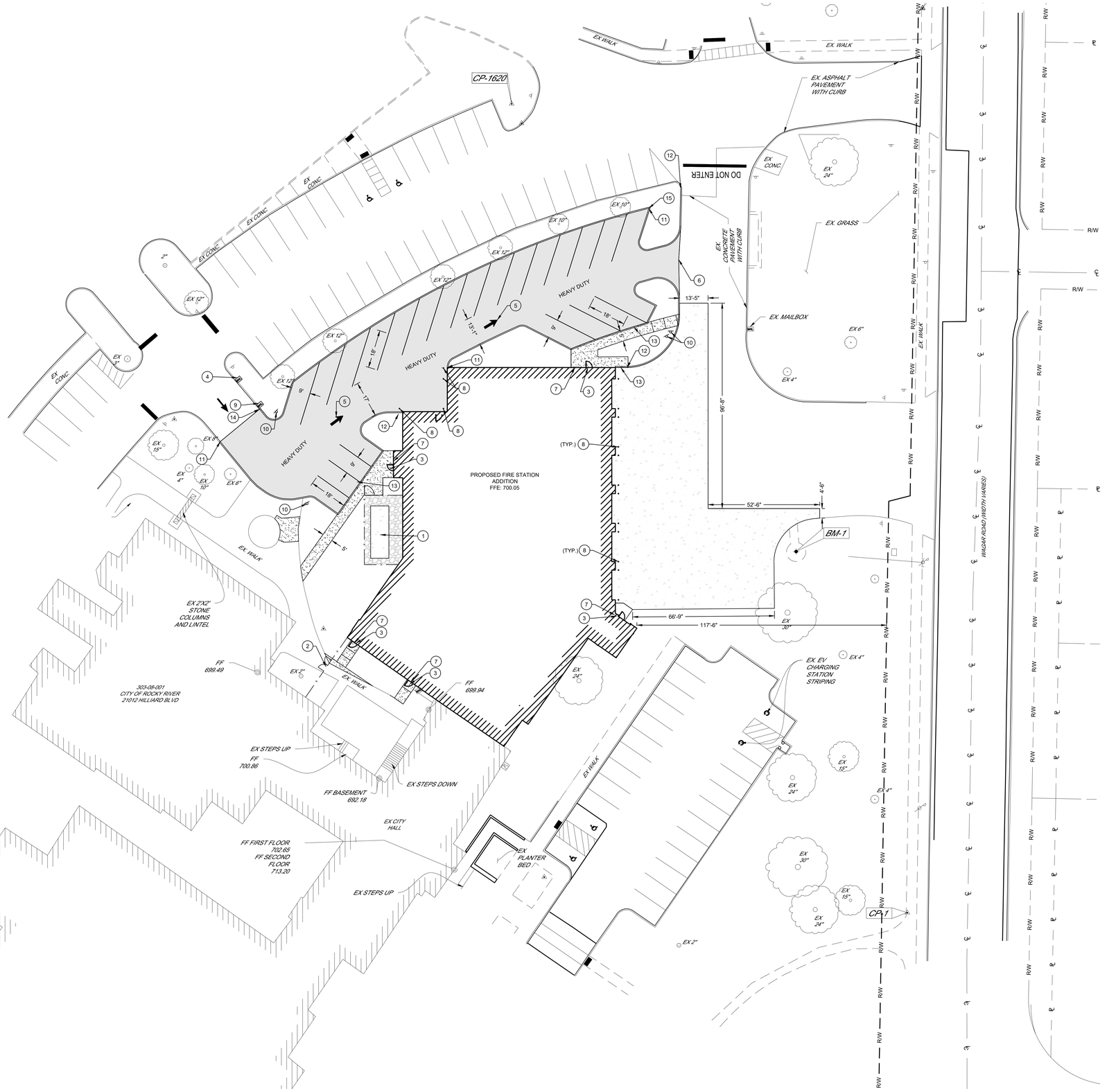
Rocky River, Ohio 44116

ISSUE	DATE
Design Development	06-19-2025
Final Planning Commission	08-04-2025

EXISTING CONDITIONS AND DEMOLITION PLAN

C1.0



FULL SIZE SHEET (30"x42")

SCALE: 1" = 20'-0"

0 10' 20' 40'

ZONING: PF - PUBLIC FACILITIES DISTRICT

PARKING:
PARKING SPACES TO BE REMOVED: 30
PARKING SPACES TO BE ADDED: 23

LEGEND

- HEAVY DUTY ASPHALT PAVEMENT IN PARKING STALLS AND ACCESS AISLES ENTIRE PARKING LOT AS CONCRETE (BID ALTERNATE)
- HEAVY DUTY CONCRETE PAVEMENT (REINFORCED-SEE DETAILS SHEET C 1.5)
- 6" CONCRETE SIDEWALK (SEE DETAIL SHEET C 1.5)

PLAN NOTES

1. PROPOSED LOCATION OF RELOCATED GENERATOR. SEE STRUCTURAL PLANS FOR DETAILS
2. PROPOSED FENCE AND GATE, EGRESS ONLY. SEE ARCHITECT PLANS FOR DETAILS
3. INSTALL FROST STOOP, SEE STRUCTURAL PLANS FOR DETAIL
4. PROPOSED TEMPORARY LOCATION OF MAILBOX DURING CONSTRUCTION.
5. PROPOSE DIRECTIONAL ARROW
6. SEAL JOINT WEAR ASPHALT ABUTS CONCRETE
7. INSTALL EXPANSION JOINT WHERE CONCRETE ABUTS THE BUILDING
8. PROPOSED BOLLARDS, SEE ARCHITECT PLANS FOR DETAILS
9. INSTALL MAIL BOX AT THIS LOCATION ONCE CONSTRUCTION IS COMPLETE
10. NEW LOCATION OF SIGN
11. BEGIN 6" VERTICAL CURB
12. END 6" VERTICAL CURB
13. INTEGRAL CURB AND WALK
14. BEGIN 2" VERTICAL CURB
15. END 2" VERTICAL CURB
16. 0" CURB REVEAL

BID ALTERNATE NOTE

A. CONTRACTOR SHALL PROVIDE PRICING FOR HEAVY DUTY CONCRETE THROUGH OUT THE THE ENTIRE PARKING LOT

PERSPECTUS

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SITE LAYOUT PLAN

C1.1

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LEGEND

(D#) STORM STRUCTURE I.D.

(S#) SANITARY STRUCTURE I.D.

SCALE: 1" = 20'-0"

0 10' 20' 40'

FULL SIZE SHEET (30"x 42")

PERSPECTUS

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(#) PLAN NOTES

1. PROPOSED OIL/WATER SEPARATOR LOCATION
2. SANITARY LINE TO BE REMOVED AND REPLACED AS A BID ALTERNATE
3. STORM LINE TO BE REMOVES AND REPLACED AS A BID ALTERNATE

UTILITY NOTES

A. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER, ARCHITECT AND/OR OWNER, IN ORDER TO OBTAIN AND/OR PAY ALL THE NECESSARY LOCAL PERMITS, FEES AND BONDS.

B. THE CONTRACTOR SHALL PROVIDE A MINIMUM NOTICE OF FOURTEEN (14) DAYS TO ALL CORPORATIONS, COMPANIES AND/OR LOCAL AUTHORITIES OWNING OR HAVING JURISDICTION OVER UTILITIES RUNNING TO, THROUGH OR ACROSS PROJECT AREAS PRIOR TO DEMOLITION AND/OR CONSTRUCTION ACTIVITIES.

C. THE LOCATION, SIZE, DEPTH AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES SHALL BE TO THE STANDARDS AND REQUIREMENTS OF THE RESPECTIVE UTILITY COMPANY (ELECTRIC, TELEPHONE, CABLE TELEVISION, FIRE ALARM, GAS WATER, AND SEWER).

D. A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE OWNER, ENGINEER, ARCHITECT, CONTRACTOR, LOCAL OFFICIALS, AND ALL PROJECT-RELATED UTILITY COMPANIES (PUBLIC AND PRIVATE) PRIOR TO START OF CONSTRUCTION.

E. ALL CONSTRUCTION SHALL CONFORM TO THE CITY STANDARDS AND REGULATIONS, UNLESS OTHERWISE SPECIFIED. ALL CONSTRUCTION ACTIVITIES SHALL CONFORM TO LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) RULES AND REGULATIONS.

F. THE CONTRACTOR IS TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITY STUBS PRIOR TO CONSTRUCTION AND DISCONNECT ALL EXISTING SERVICE CONNECTIONS AT THEIR RESPECTIVE MAINS IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANY'S STANDARDS AND SPECIFICATIONS.

G. AS-BUILT PLANS SHALL BE SUBMITTED TO THE CITY ENGINEER BY THE CONTRACTOR.

H. THE CONTRACTOR IS RESPONSIBLE FOR PAYMENT OF ALL UTILITY CONNECTION FEES, APPLICATION FEES, SERVICE CONNECTION FEE AND TAP IN FEE. COST TO BE INCLUDED IN BASE BID.

I. FRAMES AND COVERS: MANHOLE FRAMES AND COVERS SHALL BE OF HEAVY DUTY DESIGN AND PROVIDE A 24 INCH DIA. CLEAR OPENING. THE WORD "SEWER" OR "STORM" SHALL BE CAST INTO THE CENTER OF THE UPPER FACE OF EACH COVER WITH RAISED, 3" LETTERS.

J. CONTRACTOR SHALL PLACE 4" WIDE METAL WIRE IMPREGNATED PLASTIC WARNING TAPE OVER ENTIRE LENGTH OF ALL GRAVITY SEWERS AND SERVICES, SEE SPECIFICATIONS FOR COLOR CODE.

K. SANITARY SEWER LINES SHALL BE LOCATED AT LEAST TEN (10) FEET HORIZONTALLY FROM AN EXISTING OR PROPOSED WATER LINE. WHEN A SEWER LINE CROSSES A WATER LINE, THE SEWER LINE SHALL EXTEND A MINIMUM OF TEN (10) FEET TO EACH SIDE OF THE WATER LINE. THE SEWER LINE SHALL ALSO MAINTAIN A VERTICAL SEPARATION OF NOT LESS THAN 18 INCHES.

L. PROPOSED RIM ELEVATIONS OF STORM AND SANITARY MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS AREA TO BE SET FLUSH WITH FINISHED GRADE. ADJUST ALL OTHER RIM ELEVATIONS OF MANHOLES, WATER GATES, GAS GATES AND OTHER UTILITIES TO FINISHED GRADE AS SHOWN ON THE GRADING AND THE UTILITY PLAN.

M. SEWER AND WATER LINES AND ALL APPURTENANCES SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH THE STATE AND CITY SEWER AND WATER SPECIFICATIONS AND DETAILS.

N. ALL WATER MAINS AND SERVICE PIPES SHALL HAVE A MINIMUM 18" VERTICAL AND 5'-0" HORIZONTAL SEPARATION TO STORM MANHOLES AND CATCH BASINS, OR CONTRACTOR SHALL INSTALL INSULATION FOR FREEZING PROTECTION (GILSUALTE 500 XR).

O. THRUST BLOCKS OR MECHANICALLY RESTRAINED JOINTS SHALL BE PROVIDED AT ALL BENDS, TEES, MECHANICAL JOINTS AND FIRE HYDRANTS.

P. THE CONTRACTOR IS TO VERIFY WITH THE ARCHITECT'S PLAN THE LOCATIONS OF ALL UTILITIES STUB LOCATION WITHIN THE BUILDING PRIOR TO CONSTRUCTION.

Q. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.

R. NO ROOF, STORM OR CELLAR SEEPAGE WATER OR GROUND WATER OF ANY NATURE SHALL BE ALLOWED TO ENTER THE SANITARY SEWER SYSTEM.

S. FIELD VERIFY ALL EXISTING STORM AND SANITARY INVERTS PRIOR TO CONSTRUCTION.

T. ALL SANITARY MANHOLES SHALL HAVE FILLETED INVERTS.

U. ALL INLETS, MANHOLES, PIPES AND CULVERTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS SET FORTH IN THE LATEST EDITION OF THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS

BID ALTERNATE NOTES

A. CONTRACTOR SHALL PROVIDE A PRICE FOR THE SANITARY LINE TO BE REMOVED AND REPLACED AS INDICATED ON PLANS AS A BID ALTERNATE

B. CONTRACTOR SHALL PROVIDE A PRICE FOR THE STORM LINE TO BE REMOVED AND REPLACED AS INDICATED ON PLANS AS A BID ALTERNATE

PROPOSED STORM STRUCTURE SCHEDULE

ID	TYPE	RIM	INVERT	
D1	ODOT 2-2C CATCH BASIN	699.29		
D2	ODOT 2-2C CATCH BASIN	698.58		
D3	ODOT 2-2C CATCH BASIN	698.92		
D4	ODOT 2-2C CATCH BASIN	698.83		
D5	ODOT 2-2C CATCH BASIN	698.33		

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UTILITY PLAN

C1.2

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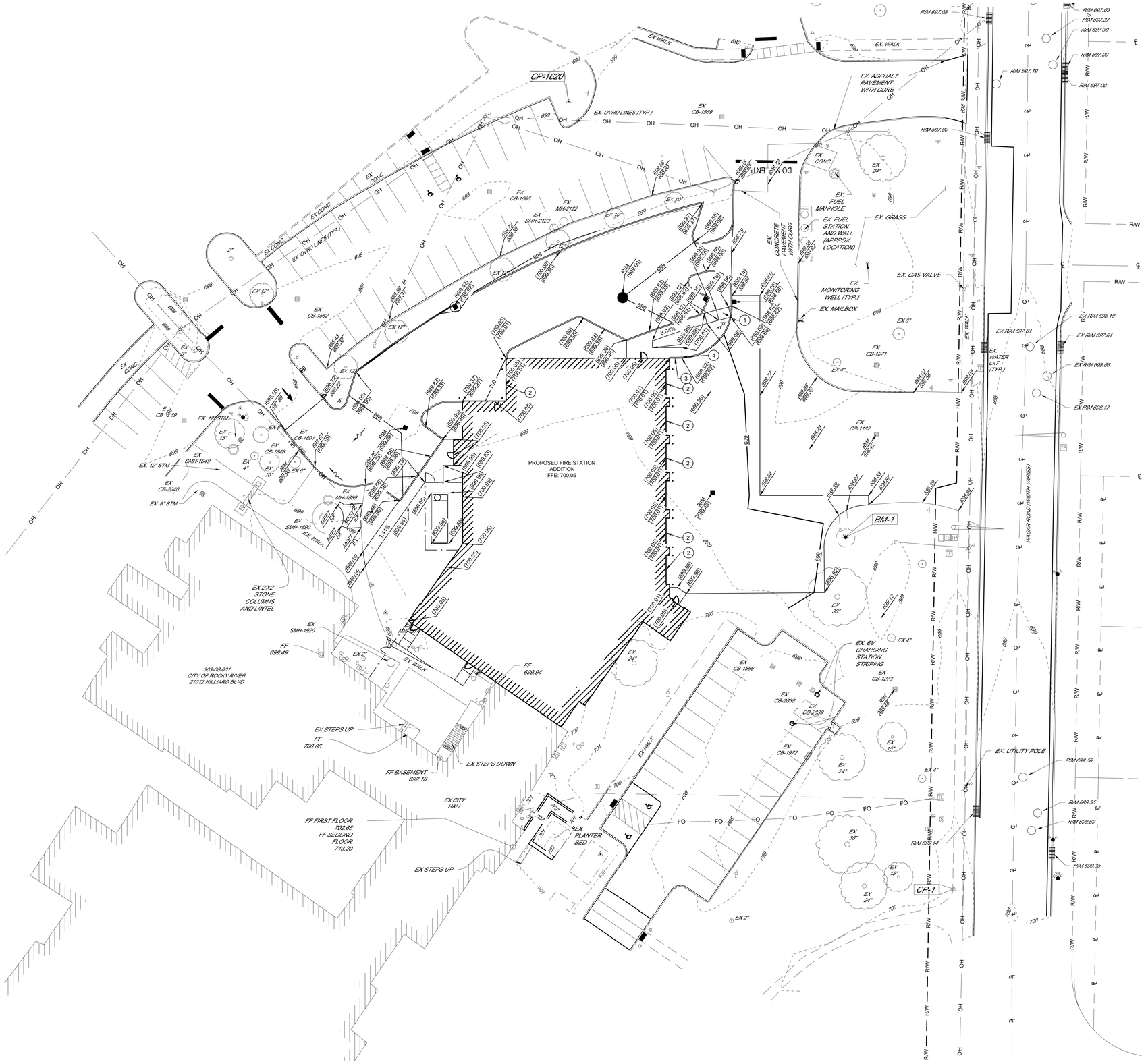

LEGEND

(697.50) / (697.00)	PROPOSED TOP OF CURB ELEVATION / PROPOSED BOTTOM OF CURB ELEVATION
(696.00)	PROPOSED SPOT ELEVATION
695.00	EXISTING SPOT ELEVATION
	FLOW ARROW

(#) PLAN NOTES

1. PROPOSED ADA RAMP WITH TRUNCATED DOMES
2. INSTALL 1/2" LIP AT THE FACE OF THE INTERIOR WALL. SEE ARCHITECTURAL PLANS
3. 0" CURB REVEAL
4. PROPOSED CURB TAPER FROM 6" CURB REVEAL TO 0" CURB REVEAL

GENERAL NOTES

A. UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN PLOTTED FROM FIELD OBSERVATION AND THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. NEITHER BRAMHALL ENGINEERING AND SURVEYING COMPANY AND KARPINSKI ENGINEERING NOR ANY OF THEIR EMPLOYEES TAKE RESPONSIBILITY FOR THE LOCATION OF ANY UNDERGROUND STRUCTURES AND/OR UTILITIES NOT SHOWN THAT MAY EXIST. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UNDERGROUND STRUCTURES AND/OR UTILITIES LOCATED PRIOR TO EXCAVATION BY CALLING 811.

B. ELEVATIONS SHOWN ARE TIED TO TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88)

C. ALL BENCHMARKS AND TOPOGRAPHY SHOULD BE FIELD VERIFIED BY THE CONTRACTOR. BENCHMARKS SHOWN ON PLAN ESTABLISHED BY OR FOUND BY BRAMHALL ENGINEERING AND SURVEYING COMPANY. CONDITION OF BENCHMARK MUST BE VERIFIED PRIOR TO CONSTRUCTION.

D. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.

E. ALL STORM STRUCTURES SHALL BE PRECAST UNLESS OTHERWISE SPECIFIED. SEE UTILITY PLAN FOR STORM STRUCTURE SCHEDULE AND SHEET D3 FOR STORM DETAILS.

F. IN AREAS WHERE CONSTRUCTION IS PROPOSED ADJACENT TO ABUTTING PROPERTIES, THE CONTRACTOR SHALL INSTALL ORANGE CONSTRUCTION FENCING ALONG LEASE LINE OR PROPERTY LINES IN ALL AREAS WHERE SILT FENCE OR SILT SOCK IS NOT REQUIRED.

PERSPECTUS

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GRADING PLAN

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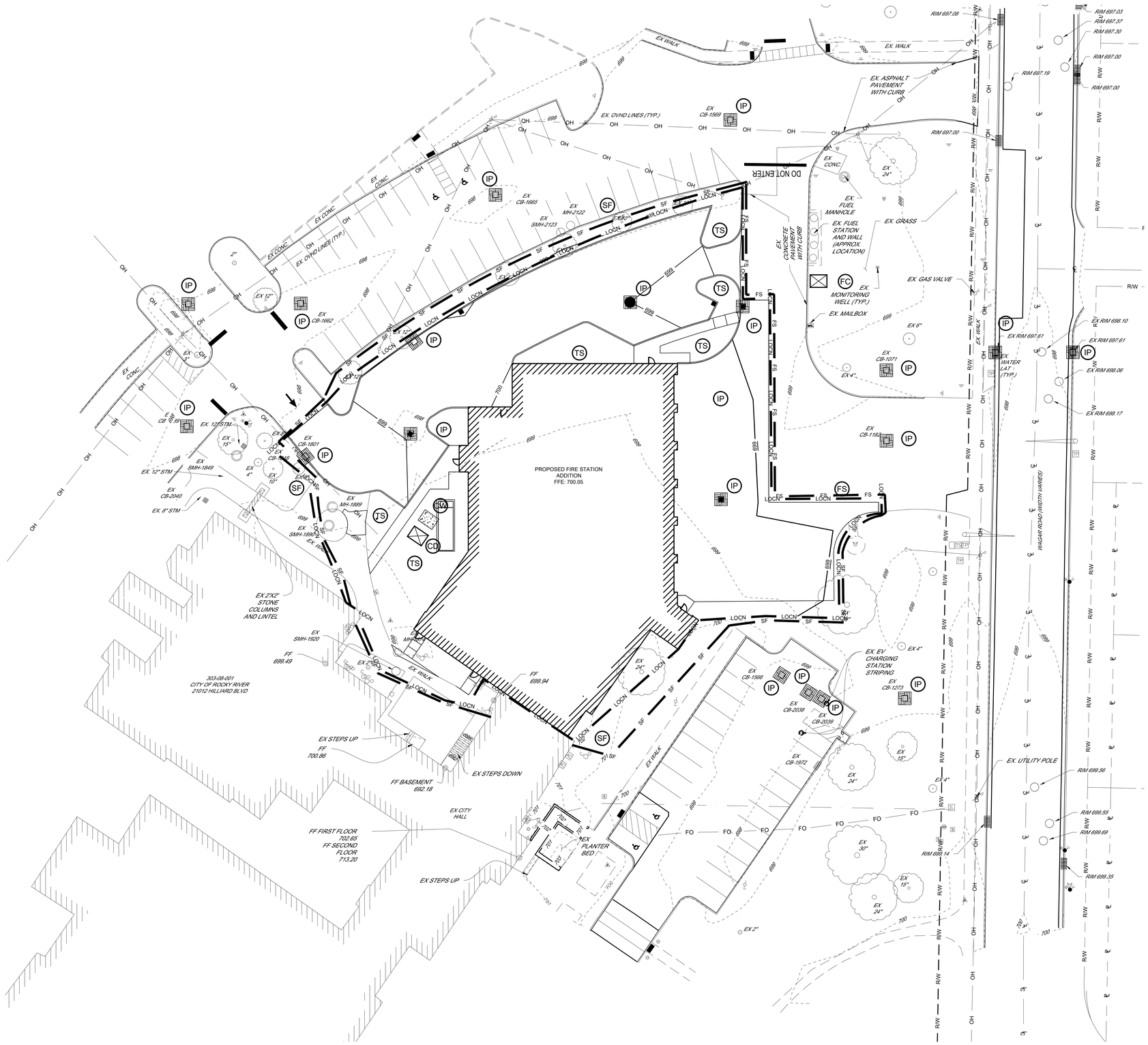

FULL SIZE SHEET (30"x42")

SCALE: 1" = 20'-0"

0 10' 20' 40'

SWPPP LEGEND			BMPs UTILIZED ON THIS PROJECT "X"
	IP	STORM DRAIN INLET PROTECTION	X
	TS	TEMPORARY SEEDING	X
	PS	PERMANENT SEEDING	X
	DC	DUST CONTROL	X
	CW	CONCRETE WASHOUT	X
— X —	CF	8'-0" CHAIN-LINK FENCE	
— FS —	FS	FILTER SOCK	X
— SF —	SF	SILT FENCE	X
	CD	COVERED AND LEAK PROOF CONSTRUCTION DEBRIS DUMPSTER	X
	FC	FUEL CONTAINMENT DYKE AND CHEMICAL STORAGE/MIXING AREA	X
	CE	CONSTRUCTION ENTRANCE	

SOIL BOUNDARY (NO SOIL BOUNDRIES ARE SHOWN AS THE ENTIRE SITE IS HbA SOIL)

HbA SOIL TYPE/NAME

CONSTRUCTION SEQUENCE

A. CONTACT CUYAHOGA COUNTY SOIL & WATER CONSERVATION DISTRICT TO SCHEDULE A PRE-CONSTRUCTION MEETING AT 216-524-6580 PRIOR TO ANY EARTH MOVING ACTIVITY.

B. ESTABLISH CONSTRUCTION OFFICE ON SITE. ESTABLISH TEMPORARY POWER, WATER, SANITARY SEWER, TELEPHONE SERVICE, WITH OWNER, GC, SITE CONTRACTOR AND CITY ENGINEER REPRESENTATIVE. ALL TEMPORARY UTILITY SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

C. STAKEOUT LIMITS OF DISTURBANCE.

D. INSTALL INLET PROTECTION OF ANY EXISTING CATCH BASINS.

E. INSTALL ALL PERIMETER SILT FENCE (OR FILTER SOCK) WHERE SHOWN ON PLANS.

F. MAINTAIN TEMPORARY CONTROLS UNTIL REMOVAL IS WARRANTED DUE TO PROGRESSION OF WORK. CONSTRUCTION BMPs SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.

G. STRIP TOPSOIL AND BEGIN EARTHWORK OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE OWNER OF LOCATION AND EROSION SEDIMENTATION CONTROL MEASURES IMPLEMENTED AT BORROW OR SPOIL SITE OF IMPORT/EXPORT MATERIAL.

H. ALL SEWER AND UTILITY LINE AND BUILDING CONSTRUCTION MAY BEGIN IMMEDIATELY FOLLOWING ESTABLISHMENT OF GRADE AND PERMISSION OF THE OWNER.

I. STABILIZE ALL UTILITY TRENCHES AT THE END OF EACH WORKDAY BY MEANS OF GRAVEL BACKFILL TO SURFACE, RE-PAVING, MULCHING.

J. STABILIZE ALL DISTURBED AREAS WITH TOPSOIL, PERMANENT SEED AND MULCHING IMMEDIATELY UPON REACHING FINAL GRADE.

K. INSTALL BUILDING, PAVEMENT BASE AND PAVEMENT.

M. COMPLETE SITE WORK, PAVEMENT MARKING, FINAL LANDSCAPING AND CLEANUP.

N. RESEED AND REDRESS ANY AREAS THAT MAY REQUIRE ATTENTION IMMEDIATELY. NOTE THAT LAWN AREAS WILL NOT BE DEEMED STABLE UNTIL A UNIFORM 80% COVERAGE IS ACHIEVED.

O. ALL EROSION MEASURES SHALL REMAIN IN PLACE UNTIL THE SITE IS STABILIZED. ALL AREAS OF VEGETATIVE SURFACE STABILIZATION, WHETHER TEMPORARY OR PERMANENT, SHALL BE CONSIDERED TO BE IN PLACE AND FUNCTIONAL WHEN THE REQUIRED UNIFORM RATE OF COVERAGE (80%) IS OBTAINED.

P. IF FOR ANY REASON THE PROJECT IS SUSPENDED, THE CONTRACTOR SHALL ENSURE THAT ALL INSTALLED EROSION MEASURES ARE FUNCTIONING AND PROPERLY MAINTAINED DURING THIS PERIOD, AND THAT ALL DISTURBED SOILS ARE SEEDED AND MULCHED WITH TEMPORARY SEED MIXTURE.

EROSION AND SEDIMENT CONTROL NOTES:

A. THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT.

B. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHOULD BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME.

C. TEMPORARY VEGETATION SHALL BE USED TO PROTECT HIGH EROSION POTENTIAL OR OTHER CRITICAL AREAS EXPOSED DURING DEVELOPMENT. WHEREVER FEASIBLE, NATURAL VEGETATION SHOULD BE RETAINED AND PROTECTED.

D. THE CONTRACTOR IS TO REFER TO THIS PLAN AND THE E&S PLAN, NOTES, AND DETAILS.

E. APPROXIMATE TOTAL DISTURBED AREA 0.988 AC

F. TEMPORARY SEEDING IS SPECIFIED UNTIL CONSTRUCTION OF FINAL IMPROVEMENTS COMMENCES.

G. THE CONTRACTOR IS TO INSTALL AND MAINTAIN THE EROSION &SEDIMENT (E&S) CONTROLS THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL THE SITE IS FULLY STABILIZED.

H. THE CONTRACTOR IS RESPONSIBLE TO REMOVE THE TEMPORARY E&S CONTROLS ONCE THE SITE IS FULLY STABILIZED.

I. CONTRACTOR IS TO MAINTAIN A LOG DOCUMENTING GRADING AND STABILIZATION ACTIVITIES AS WELL AS AMENDMENTS TO THE SOIL & WATER POLLUTION PREVENTION PLAN (SWP3), PER GENERAL PERMIT REQUIREMENTS. SWP3 INSPECTION REPORTS SHALL BE KEPT ON SITE WITH THE SWP3 AND READILY ACCESSIBLE DURING NORMAL WORKING HOURS.

J. CONTRACTOR IS TO UTILIZE EXISTING PAVEMENT FOR CONSTRUCTION ENTRANCE PER THEIR MEANS AND METHODS.

K. APPLICANT SHALL MAINTAIN COMPLIANCE WITH OHIO EPA'S GENERAL STORMWATER NPDES PERMIT PROGRAMS.

L. APPLICANT SHALL MAINTAIN COMPLIANCE WITH THE CITY OF ROCKY RIVER AND STATE OF OHIO'S AIR QUALITY REGULATIONS APPLICABLE IN THE ROCKY RIVER MUNICIPAL CODE AND THE OHIO ADMINISTRATIVE CODE INCLUDING, BUT NOT LIMITED TO THE ASBESTOS AND THE ANTI-NOISE LAWS.

M. ALL WASTE WILL COMPLY WITH APPLICABLE STATE OR LOCAL WASTE DISPOSAL REQUIREMENTS AND PROVISIONS FOR SANITARY WASTES AND CONSTRUCTION AND DEMOLITION DEBRIS. OPEN BURNING IS PROHIBITED.

HANDLING OF TOXIC OR HAZARDOUS MATERIALS

A. ALL HAZARDOUS AND CHEMICAL SPILLS SHALL BE CONTAINED ON-SITE AND REMOVED BY A CERTIFIED HAZARDOUS WASTE REMOVAL CONTRACTOR AND DISPOSED OF PER STATE AND LOCAL SPECIFICATIONS.

B. CONTRACTOR SHALL ALSO REMOVE ALL SOILS THAT ARE IMPACTED BY SPILLS.

C. NO CHEMCIALS OR SPILLS SHALL BE DIRECTED TO THE CITY STORM WATER OR SANITARY SEWER SYSTEMS.

D. THE CONTRACTOR SHALL DEVELOP AND HAVE A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC PLAN). PLAN SHALL INCLUDE CONTACTING NOTE: OHIO EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE (LEPC) MUST BE CONTACTED WITHIN 30 MINUTES OF A SPILL OF 25 OR MORE GALLONS.

SOIL NAMES AND HSG GROUPS:

SOIL TYPE	NAME	HYDROLOGIC SOIL GROUP PRE CONSTRUCTION	POST-CON.
HbA	HASKINS-URBAN LAND COMPLEX	C/D	D

PERSPECTUS

PRELIMINARY
NOT FOR CONSTRUCTION

Karpinski ENGINEERING
3135 Euclid Ave.
Cleveland, OH 44115
216-391-3700 | karpinskieng.com

24-114
New Fire Station
City of Rocky River
21012 Hilliard Blvd
Rocky River, Ohio 44116

ISSUE	DATE
Design Development	06-19-2025
Final Planning Commission	08-04-2025

SWPP PLAN

C1.4

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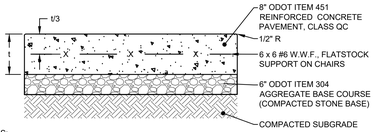
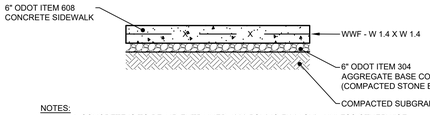


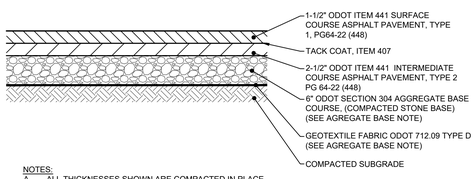
NOTES:
A. ALL CONCRETE IS TO BE AIR-ENTRAINED 4000 PSI (NO FLY ASH), UNLESS OTHERWISE DIRECTED BY ENGINEER.
B. SLOPE SURFACE TO DRAIN
C. CONCRETE PAVEMENT TO HAVE MEDIUM BROOM FINISH PERPENDICULAR TO TRAFFIC FLOW, RUB OUT ALL TOOL MARKS.
D. PROVIDE EXPANSION JOINTS AT 50'-60' O.C. AND WHERE CONCRETE ABUTS BUILDING, CURBS, OR OTHER STRUCTURES.
E. CONTRACTION JOINTS SHOULD NOT EXCEED 15' O.C.
F. COORDINATE LOCATION OF ALL JOINTS WITH THE ENGINEER.
G. MATERIAL PLACING, FINISHING, AND JOINTING PER DETAILS AND SPECIFICATIONS.

HEAVY DUTY CONCRETE PAVEMENT DETAIL
SCALE: NONE



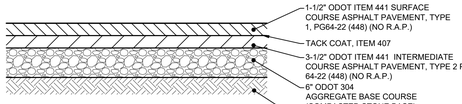
NOTES:
A. ALL CONCRETE IS TO BE AIR-ENTRAINED 4000 PSI (NO FLY ASH) , UNLESS OTHERWISE DIRECTED BY ENGINEER.
B. SLOPE SURFACE TO DRAIN (MIN 1% MAX 2% CROSS-SLOPE).
C. 1/2" PREFORMED JOINT MATERIAL, CONTINUOUS STRIP SHALL BE INSTALLED EVERY 30' AND / OR BETWEEN SIDEWALK AND ANY FIXED STRUCTURE EXTENDING THE FULL DEPTH OF THE SIDEWALK.
D. SIDEWALK JOINTS SHALL BE DIVIDED INTO EQUALLY SPACED BLOCKS, BUT NOT GREATER THAN 10' O.C. (I.E. 5' INTERVALS FOR 5' WIDE SIDEWALKS). JOINTS SHALL BE HAND TOOLED OR SAW CUT TO A DEPTH OF 1/4" OF THE SLAB THICKNESS.
E. MATERIAL PLACING, FINISHING, AND JOINTING PER DETAILS AND SPECIFICATIONS
F. CONCRETE WALK IS TO HAVE MEDIUM BROOM FINISH PERPENDICULAR TO TRAFFIC FLOW, RUB OUT ALL TOOL MARKS.

SITE CONCRETE SIDEWALK DETAIL
SCALE: NONE



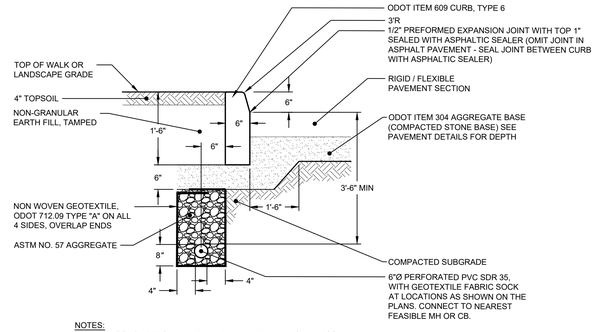
NOTES:
A. ALL THICKNESSES SHOWN ARE COMPACTED IN PLACE.
B. PRIOR TO PAVING, SUBBASE IS TO BE PROOF ROLLED BY CONTRACTOR.
C. TACK COAT TO BE APPLIED IN ACCORDANCE WITH ODOT ITEM 407 SPECIFICATIONS
D. WHERE APPLICABLE, REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
E. CONTRACTOR IS RESPONSIBLE FOR PROOF ROLLING PER THE PROJECT SPECIFICATIONS

STANDARD DUTY ASPHALT PAVEMENT DETAIL
SCALE: NONE



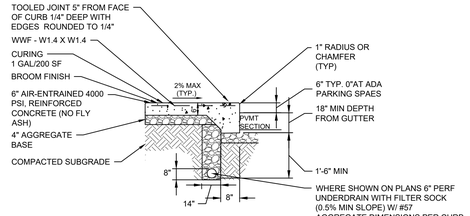
NOTES:
A. ALL THICKNESSES SHOWN ARE COMPACTED IN PLACE.
B. PRIOR TO PAVING, SUBBASE IS TO BE PROOF ROLLED.
C. TACK COAT TO BE APPLIED IN ACCORDANCE WITH ODOT ITEM 407 SPECIFICATIONS.
D. WHERE APPLICABLE, REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

HEAVY DUTY ASPHALT PAVEMENT DETAIL
SCALE: NONE



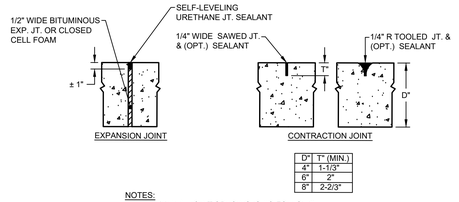
NOTES:
A. ALL CONCRETE SHALL BE AIR ENTRAINED 4,000 PSI UNLESS OTHERWISE DIRECTED BY ENGINEER (NO FLY ASH).
B. PROVIDE HOT APPLIED ASPHALTIC SEALER ACCORDING TO ASTM D 3405 AT ALL SURFACES WHERE ASPHALT PAVEMENT ABUTS CONCRETE CURB. APPLY SEALER IN A NEAT, WORKMANSHIP FASHION.
C. INSTALL CONTRACTION JOINT @ 10' O.C.
D. AGGREGATE BASE IS TO EXTEND 14" BEYOND BACK OF CURB.

6" CONCRETE CURB DETAIL WITH UNDERDRAIN
SCALE: NONE



NOTES:
A. ALL CONCRETE SHALL BE AIR ENTRAINED 4000 PSI (NO FLY ASH) UNLESS OTHERWISE DIRECTED BY ENGINEER.
B. PROVIDE STANDARD RUBBED FINISH ON EXPOSED VERTICAL FACE.
C. SLOPE SURFACE TO DRAIN (MIN 1% MAX 2% CROSS-SLOPE).
D. 1/2" PREFORMED JOINT MATERIAL, CONTINUOUS STRIP SHALL BE INSTALLED EVERY 30' AND / OR BETWEEN SIDEWALK AND ANY FIXED STRUCTURE EXTENDING THE FULL DEPTH OF THE SIDEWALK.
E. SIDEWALK JOINTS SHALL BE DIVIDED INTO EQUALLY SPACED BLOCKS, BUT NOT GREATER THAN 10' O.C. (I.E. 5' INTERVALS FOR 5' WIDE SIDEWALKS). JOINTS SHALL BE HAND TOOLED OR SAW CUT TO A DEPTH OF 1/4" OF THE SLAB THICKNESS.
F. MATERIAL PLACING, FINISHING, AND JOINTING PER DETAILS AND SPECIFICATIONS
G. CONCRETE WALK IS TO HAVE MEDIUM BROOM FINISH PERPENDICULAR TO TRAFFIC FLOW, RUB OUT ALL TOOL MARKS.

MOD. INTEGRAL CURB & WALK
SCALE: NONE



D"	T" (MIN.)
4"	1-1/2"
6"	2"
8"	2-2/3"

NOTES:
A. MAXIMUM JOINT SPACING IS AS FOLLOWS:
B. CONTRACTION JOINT @ 15' O.C.
C. EXPANSION JOINT @ 60' O.C.
D. USE OF SEALANT IS OPTIONAL IN CONTRACTION JOINTS

PROFILE CONCRETE JOINT DETAIL
SCALE: NONE

FULL SIZE SHEET (30"x42")

PERSPECTUS

PRELIMINARY
NOT FOR CONSTRUCTION

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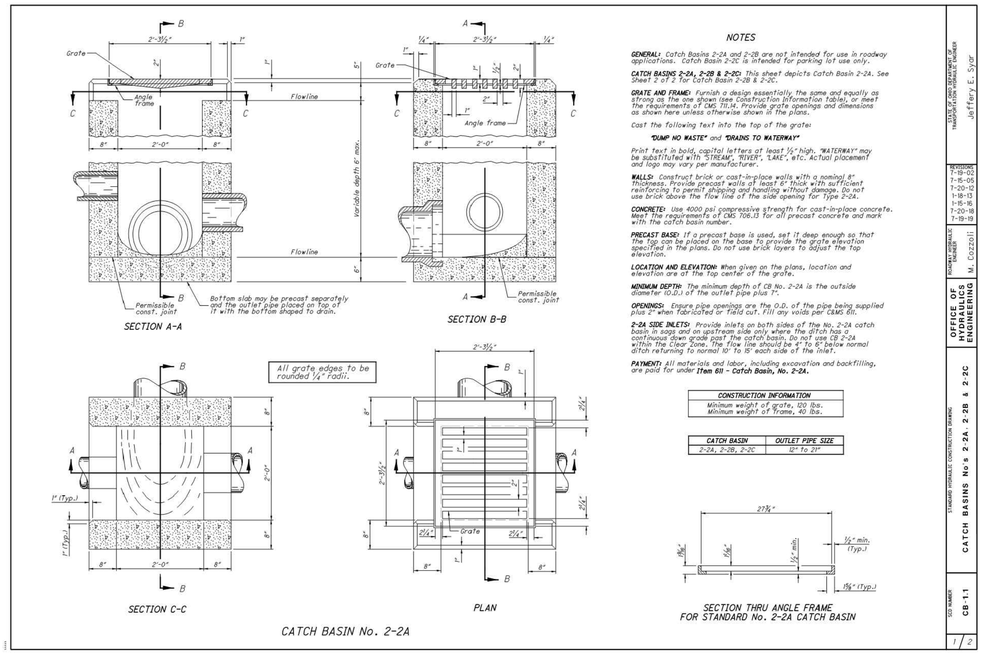
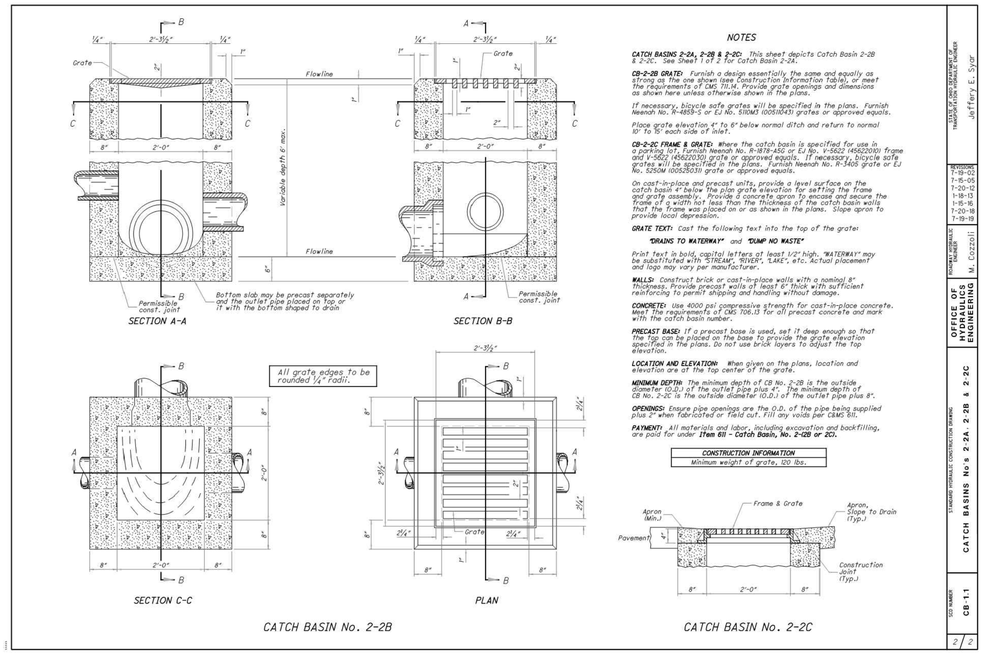
Cleveland, OH 44115
216-391-3700 | karpinskieng.com





ISSUE	DATE
Design Development	06-19-2025
Final Planning Commission	08-04-2025

24-1114
New Fire Station
City of Rocky River
21012 Hilliard Blvd
Rocky River, Ohio 44116

CONSTRUCTION DETAILS

C1.5

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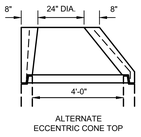
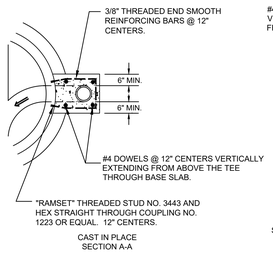
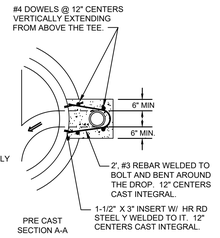


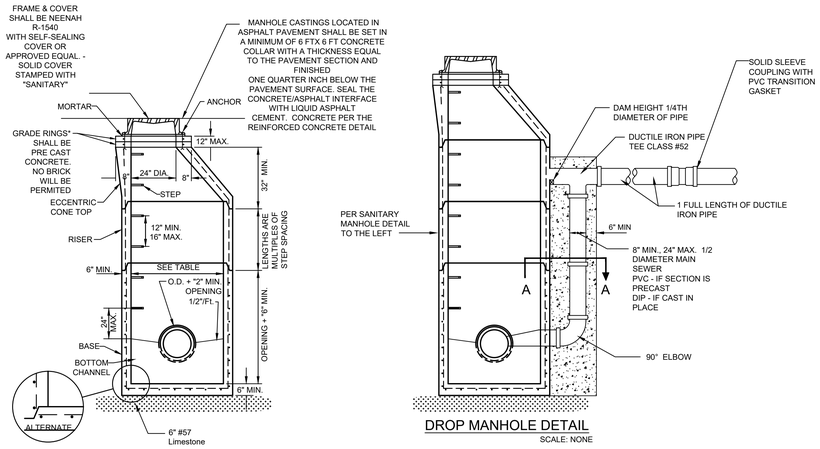
ALTERNATE
ECCENTRIC CONE TOP



CAST IN PLACE
SECTION A-A



PRE CAST
SECTION A-A



DROP MANHOLE DETAIL
SCALE: NONE

PRECAST SANITARY CONCRETE MANHOLE DETAIL

SCALE: NONE

NOTES:

SECTIONS OF THE PRECAST MANHOLE SHALL BE CAST AND ASSEMBLED WITH EITHER ALL TONGUE OR ALL GROOVE ENDS UP. LIFT HOLES MAY BE PROVIDED IN EACH SECTION FOR HANDLING.

TOP AND TRANSITION (OR REDUCER)
SECTIONS MAY EITHER BE ECCENTRIC CONE, CONCENTRIC CONE OR FLAT SLAB.

BASES: FOR MANHOLES AS SHOWN WITH MONOLITHIC FLOOR AND RISER WHICH MAY BE CAST IN ONE OR TWO OPERATIONS. A PERMISSIBLE ALTERNATE IS TO CAST AND SHIP THE FLOOR AND BARREL SEPARATELY. OPENINGS FOR INLET AND OUTLET PIPE SHALL BE PROVIDED, EITHER WITH THE UNIT IS CAST OR LATER, TO MEET PROJECT REQUIREMENTS. BOTTOM CHANNELS MAY BE FORMED OF CONCRETE PRECAST IN THE BASE OR BY FIELD CONSTRUCTION. BASES MAY ALSO BE POURED IN PLACE. ALL INLETS AND OUTLETS ARE TO BE INDENTED.

OPENINGS IN RISER SECTIONS: FOR 18" AND SMALLER INLET PIPES SHALL BE PREFABRICATED. FLEXIBLE CONNECTORS SHALL BE PROVIDED FOR SANITARY AND COMBINED SEWERS.

JOINT SEAL: BETWEEN PRECAST MANHOLE SECTIONS ON SEWERS SHALL BE RESILIENT AND FLEXIBLE GASKET JOINTS PER ASTM C 443 OR LATEST EDITION.

IN ADDITION TO O-RING JOINT, BETWEEN MH SECTION, A FLEXIBLE BUTYL RUBBER SEAL SHALL BE USED. THIS SEALANT SHALL MEET A MINIMUM TEMPERATURE WORKABILITY OF 10 ° - 130°F.

MANHOLE INLETS AND OUTLETS SHALL HAVE A NEOPRENE COMPOUND GASKET (ASTM C-923) WATERTIGHT SEAL, LINK SEALS OR KOR-N-SEAL TYPE BOOTS FOR WATER TIGHTNESS. MORTAR JOINT SEALS WILL NOT BE USED.

MATERIALS: FOR BASES AND PRECAST SECTIONS, INCLUDING REINFORCEMENT NOT SPECIFIED HEREON, SHALL COMPLY WITH SPECIFICATIONS

LANDING PLATFORMS: SHALL PROVIDED IN MANHOLES THAT ARE OVER 28 FEET DEEP TO THE INVERT WITH A MAXIMUM VERTICAL SPACING OF 20 FEET.

PRECAST MANHOLES: SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 478. CONCRETE SHALL BE 4,000 P.S.I.

SEAL: LIFT HOLES WITH APPROVED CONCRETE PLUGS AND BITUMINOUS SEALANT. SANITARY MANHOLES SHALL BE WATERPROOFED WITH COAL TAR EPOXY.

ANCHORS: 1/2" DIA. ALLTHREAD WITH WASHERS AND HEX NUT (MIN 4). LEAD ANCHOR SECURED INTO ECCENTRIC CONE TOP.

CASTINGS FOR MANHOLES SHALL BE CLEANED AND PAINTED IN THE FIELD WITH ONE COAT OF ASPHALT VARNISH OR COAL TAR PITCH PAINT.

STEPS, FRAMES AND COVERS SHALL CONFORM WITH THE REQUIREMENTS SET FORTH WITHIN VILLAGE OF LEXINGTON STANDARD SPECIFICATIONS. STEPS SHALL BE NEENAH R-1980-1 CAST IRON; EQUIVALENT ALUMINUM, OR PLASTIC ENCAPSULATED 1/2-INCH REINFORCING BAR AS APPROVED BY THE VILLAGE.

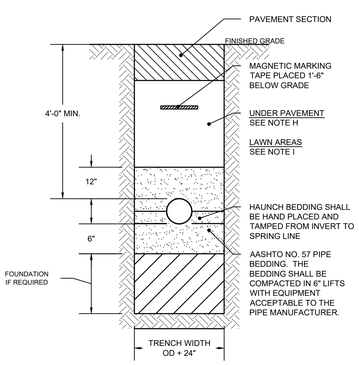
PRE CAST SANITARY MANHOLE SHALL BE COATED IN THE PLANT, THE INTERIOR BARREL, JOINT AND SLAB TOP SURFACE AREAS OF THE PRECAST MANHOLE FOR SANITARY OR COMBINED SEWER SHALL BE PREPARED AS PER MANUFACTURES RECOMMENDATIONS SO AS TO REMOVE ALL FORMS OF OIL, LAITANCE AND OTHER DELETERIOUS MATERIAL

CONCRETE MUST BE ETCHED WITH 15% TO 20% MURIATIC ACID SOLUTION OR SANDBLASTED, THE SURFACE SO PREPARED SHALL THEN BE LINED WITH A HIGH BUILD POLYAMIDE-CURED, 2-COMPONENT COAL TAR EPOXY COATING "BITUMASTIC NO. 300-M AS MANUFACTURED BY KOPPERS COMPANY, INC, PITTSBURGH, PENNSYLVANIA, 15219, OR AN APPROVED EQUAL, EACH MEETING MILITARY SPECIFICATIONS DOD-P-2326A (SH), TYPE 1, CLASS 2. THE LINING COMPOUND SHALL BE SPRAYED TWO OR MORE COATS WITH A MINIMUM OF TEN TO TWELVE DRY MILS (TWELVE TO FOURTEEN WET MILS) PER COAT TO OBTAIN A CONTINUOUS AND RELATIVELY SMOOTH LINING. THE TOTAL DRY FILM THICKNESS SHOULD NOT BE LESS THAN 20 MILS (0.02 INCHES). ADDITIONAL COATINGS MAY BE NECESSARY WITHIN INDUSTRIAL AREAS, AS SHOWN ON THE PLANS. ALL COATED SURFACE OF MANHOLE SHALL BE FREE OF SURFACE IRREGULARITIES SUCH AS AIR BUBBLES, BLISTERING, PINHOLES R POROSITY IN THE COATING FILM.

SANITARY MANHOLES SHALL HAVE CHIMNEY SEALS

TESTING

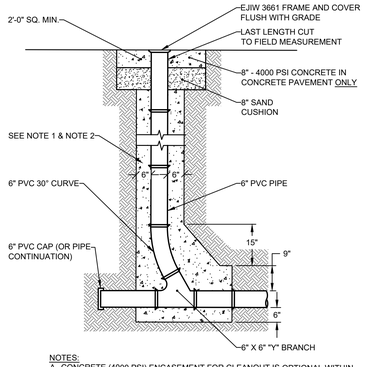
ALL SANITARY MANHOLES SHALL BE VACUUM TESTED PER ASTM C 1244 AND VILLAGE OF LEXINGTON STANDARDS.



NOTES:
A. THIS DETAIL IS FOR PVC SANITARY SEWERS. DETAIL ASSUMES TRENCH BOTTOM IS STABLE. CONTACT ENGINEER IF MATERIAL ENCOUNTERED IS NOT STABLE, OR IF ROCK IS ENCOUNTERED. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
B. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
C. ALL SEWERS ARE TO BE HANDLED, STORED, AND INSTALLED IN STRICT ACCORDANCE WITH PIPE MANUFACTURER'S REQUIREMENTS. REFER TO MANUFACTURER'S SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.
D. PIPE BEDDING AND 12" COVER SHALL BE AASHTO NO 57 STONE. DO NOT PLACE PIPE COVER ON TOP OF PIPE UNTIL INSPECTION HAS BEEN COMPLETED.
E. MINIMUM OF 12" OF PROPERLY COMPACTED COVER OVER PIPE IS REQUIRED FOR LIGHT DUTY CONSTRUCTION VEHICLE TRAFFIC (BACKHOE, PICK-UP TRUCK, ETC.). HEAVY DUTY CONSTRUCTION TRAFFIC IS NOT ALLOWED OVER PIPE UNTIL ALL REQUIRED BACKFILL AND PAVEMENT IS IN PLACE.
F. COMPACTION TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR. SUBMIT TESTING RESULTS TO THE ENGINEER FOR REVIEW. COMPACTION SHALL ACHIEVE 95% DENSITY PER STANDARD A, PROCTOR TEST.
G. PROVIDE MATERIAL SUBMITTALS TO ENGINEER FOR APPROVAL.
H. PREMIUM BACKFILL SHALL BE ODOT 304 (NO SLAG). THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN TWO INCHES AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BACKFILL SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.
I. BACKFILL IN LAWN AREAS - SUITABLE MATERIAL MAY BE CLASS I, II, III , OR EXCAVATED MATERIAL - MAX. 8" LIFTS, 93% COMPACTION. NO ROCKS OVER 1-1/2" Ø ARE ACCEPTABLE IN UPPER 8" OF BACKFILL. A 4" (MIN.) LAYER OF SCREENED TOPSOIL IS REQUIRED IN LAWN AREAS.
J. TESTING - ALL LATERALS SHALL BE SUBJECT TO A HYDROSTATIC OR AIR PRESSURE LEAK TEST; THE INSTALLER IS RESPONSIBLE FOR PLUGGING EACH END OF THE LATERAL AND FILLING THE PIPE WITH WATER OR AIR; THE WATER LEVEL IN THE STAND PIPE SHALL DROP NO MORE THAN ½" IN TWENTY (20) MINUTES; THE AIR PRESSURE SHALL DROP NO MORE THAN 1 PSI IN 3 ½ MINUTES.
K. ALL LATERALS SHALL BE INSPECTED BY A SEWER DISTRICT INSPECTOR PRIOR TO BEING BACKFILLED

SANITARY TRENCH DETAIL

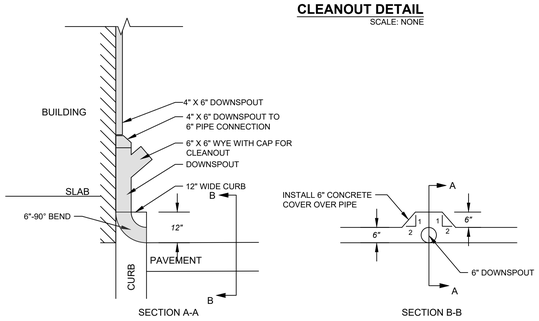
SCALE: NONE



NOTES:
A. CONCRETE (4000 PSI) ENCASEMENT FOR CLEANOUT IS OPTIONAL WITHIN LANDSCAPE. CONSULT ENGINEER BEFORE PROCEEDING.
B. CONCRETE (4000 PSI) ENCASEMENT FOR CLEANOUT IS REQUIRED WHEN SUBJECT TO TRAFFIC.
C. 8" CLEANOUT SHALL BE USED FOR 8" SEWER AND LARGER.
D. SMALLER SIZE SEWERS AND LAMP HOLES SHALL HAVE SAME SIZE PIPE.
E. CLEANOUT TO HAVE A WATERTIGHT CAP ON RISER.
F. RISER IS TO BE TERMINATED JUST BELOW GRADE. USE C.I. LAMPHOLE FRAME AND COVER WHEN SUBJECT TO TRAFFIC.
G. INSTALL CLEANOUTS ON ALL STORM & SANITARY LINES LEAVING THE BUILDING. LOCATIONS TO BE FIELD DETERMINED.

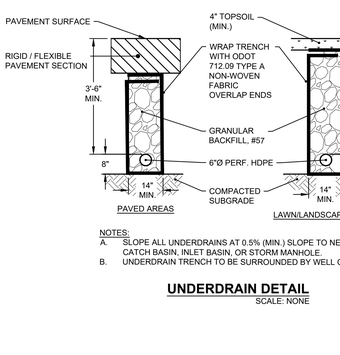
CLEANOUT DETAIL

SCALE: NONE



DOWNSPOUT OUTLET

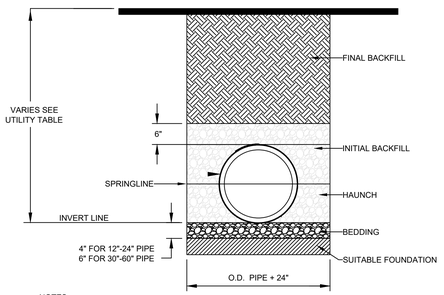
SCALE: NONE



NOTES:
A. SLOPE ALL UNDERDRAINS AT 0.5% (MIN.) SLOPE TO NEAREST FEASIBLE CATCH BASIN, INLET BASIN, OR STORM MANHOLE
B. UNDERDRAIN TRENCH TO BE SURROUNDED BY WELL COMPACTED SOILS.

UNDERDRAIN DETAIL

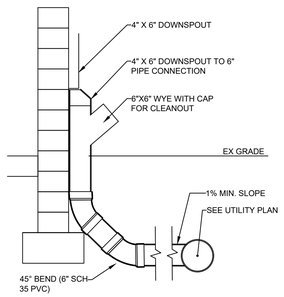
SCALE: NONE



NOTES:
A. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION
B. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
C. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
D. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I COMPACTED AGGREGATE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 6" ASTM NO 57 STONE.
E. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT E. LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
F. MINIMUM COVER : MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.
G. FINAL BACKFILL BACKFILL UNDER PAVEMENT SHALL BE PREMIUM BACKFILL SHALL BE ODOT 304 LIMESTONE. THE BACKFILL SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.
H. BACKFILL IN LAWN AREAS - 8" LIFTS, 93% COMPACTION. NO ROCKS OVER 1-1/2" Ø ARE ACCEPTABLE IN UPPER 8" OF BACKFILL. A 4" (MIN.) LAYER OF SCREENED TOPSOIL IS REQUIRED IN LAWN AREAS.
I. CONCRETE MUST BE ETCHED WITH 15% TO 20% MURIATIC ACID SOLUTION OR SANDBLASTED, THE SURFACE SO PREPARED SHALL THEN BE LINED WITH A HIGH BUILD POLYAMIDE-CURED, 2-COMPONENT COAL TAR EPOXY COATING "BITUMASTIC NO. 300-M AS MANUFACTURED BY KOPPERS COMPANY, INC, PITTSBURGH, PENNSYLVANIA, 15219, OR AN APPROVED EQUAL, EACH MEETING MILITARY SPECIFICATIONS DOD-P-2326A (SH), TYPE 1, CLASS 2. THE LINING COMPOUND SHALL BE SPRAYED TWO OR MORE COATS WITH A MINIMUM OF TEN TO TWELVE DRY MILS (TWELVE TO FOURTEEN WET MILS) PER COAT TO OBTAIN A CONTINUOUS AND RELATIVELY SMOOTH LINING. THE TOTAL DRY FILM THICKNESS SHOULD NOT BE LESS THAN 20 MILS (0.02 INCHES). ADDITIONAL COATINGS MAY BE NECESSARY WITHIN INDUSTRIAL AREAS, AS SHOWN ON THE PLANS. ALL COATED SURFACE OF MANHOLE SHALL BE FREE OF SURFACE IRREGULARITIES SUCH AS AIR BUBBLES, BLISTERING, PINHOLES R POROSITY IN THE COATING FILM.
J. SANITARY MANHOLES SHALL HAVE CHIMNEY SEALS
K. TESTING
L. ALL SANITARY MANHOLES SHALL BE VACUUM TESTED PER ASTM C 1244 AND VILLAGE OF LEXINGTON STANDARDS

HDPE AND PVC PIPE SEWER TRENCH DETAIL

SCALE: NONE



DOWNSPOUT COLLECTOR

SCALE: NONE

FULL SIZE SHEET (30"x42")

PERSPECTUS

PRELIMINARY
NOT FOR CONSTRUCTION

Karpinski ENGINEERING
3135 Euclid Ave.
Cleveland, OH 44115
216-391-3700 | karpinskieng.com

24-114
New Fire Station
City of Rocky River
21012 Hilliard Blvd
Rocky River, Ohio 44116

ISSUE	DATE
Design Development	06-19-2025
Final Planning Commisison	08-04-2025

CONSTRUCTION DETAILS

C1.6

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FULL SIZE SHEET (30"x42")

PERSPECTUS

PRELIMINARY
NOT FOR CONSTRUCTION

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NOTES

1. CONTRACTOR SHALL MAINTAIN COMPLIANCE WITH THE CUYAHOGA COUNTY SOIL & WATER CONSERVATION DISTRICT REGULATIONS AS SPECIFIED IN THE CUYAHOGA COUNTY CODE. SPECIAL ATTENTION MUST BE PAID TO ALL POTENTIAL STORM WATER IMPACTS FROM THE MODIFICATION OF THE SITE, INCLUDING BUT NOT LIMITED TO LONG-TERM OPERATION AND MAINTENANCE OF EXISTING STRUCTURAL AND NON-STRUCTURAL BEST MANAGEMENT PRACTICES.

   A. CONSTRUCTION BMPS SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.

   B. CONTRACTOR SHALL MAINTAIN COMPLIANCE WITH OHIO EPA'S GENERAL STORMWATER NPDES PERMIT PROGRAMS.

2. CONTRACTOR SHALL MAINTAIN COMPLIANCE WITH THE CITY OF ROCKY RIVER, CUYAHOGA COUNTY SOIL & WATER CONSERVATION DISTRICT, AND STATE OF OHIO'S AIR QUALITY REGULATIONS APPLICABLE IN THE MUNICIPAL CODE AND THE OHIO ADMINISTRATIVE CODE INCLUDING, BUT NOT LIMITED TO THE ASBESTOS AND THE ANTI-NOISE LAWS.

EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR IS TO REFER TO THIS PLAN AND THE E&S PLAN, NOTES. AND DETAILS.
2. CONTRACTOR IS RESPONSIBLE TO MAINTAIN LAWN AND AND STORM WATER CONTROLS UNTIL SUBSTANTIAL COMPLETION OF THE PROJECT.
3. THE CONTRACTOR IS TO INSTALL AND MAINTAIN THE E&S CONTROLS THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL THE SITE IS FULLY STABILIZED.
4. THE CONTRACTOR IS RESPONSIBLE TO REMOVE THE TEMPORARY E&S CONTROLS ONCE THE SITE IS FULLY STABILIZED.
5. DUMPSTERS, WASTE DISPOSAL AREA'S AND OTHER AREAS DESIGNATED UNDER NON-SEDIMENT POLLUTANT CONTROLS WILL BE LOCATED ON-SITE DURING CONSTRUCTION BY THE CONTRACTOR.
6. INCIDENTAL WORK BEYOND APPROXIMATE CONSTRUCTION LIMIT LINE IS TO BE INCLUDED IN BASE BID.
7. CONTRACTOR IS TO PREVENT DUST AND DEBRIS FROM BEING TRACKED OR BLOWN ONTO HILLIARD BLVD. AND WAGER RD. OR SURROUNDING PROPERTIES BY USE OF REGULAR SWEEPING, TIRE WASHING, DUST CONTROL METHODS, ETC. EQUIPMENT (POWER BROOM, WATER TRUCK, ETC.) ARE TO REMAIN ON-SITE AS REQUIRED, TO ACCOMMODATE DUST AND DEBRIS. CONTRACTOR IS TO UTILIZE TIRE WASHING STATION DURING CONSTRUCTION ACTIVITIES, IF NEEDED, TO PREVENT DEBRIS FROM REACHING ADJACENT STREETS.
8. IF CONTRACTOR IS NOTIFIED BY POLICE, CUYAHOGA COUNTY OFFICIALS, OR CUYAHOGA COUNTY SOIL & WATER CONSERVATION DISTRICT PERSONNEL OF ANY SIGNIFICANT VIOLATION OF EPA GENERAL PERMIT AND/OR SWPPP PLANS AND INFORMATION, ALL CONSTRUCTION ON-SITE IS TO CEASE UNTIL PROBLEM(S) ARE RECTIFIED & DEEMED ACCEPTABLE.

PHASING OF SITE DEVELOPMENT

- STAKE OUT LIMIT OF DISTURBANCE
- CONTRACTOR SHALL PREVENT CONSTRUCTION DEBRIS FROM BEING TRACKED ONTO PUBLIC ROADWAYS
- THE CONTRACTOR SHALL CLEAN THE ADJACENT PUBLIC ROADWAYS ON A DAILY BASIS
- INSTALL SEDIMENT CONTROL DEVICES AS NOTED ON E&S PLAN
- SITE DEMOLITION
- INSTALL UTILITES, FOUNDATIONS, CURBING, PAVEMENT, ETC.
- FINE GRADE SITE
- MAINTAIN TEMPORARY E&S CONTROLS UNTIL AFTER SUBSTANTIAL COMPLETION AND APPROVAL BY OWNER
- REMOVE TEMPORARY E&S CONTROLS ONCE SITE IS STABILIZED

MAINTENANCE/INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

ALL TEMPORARY AND PERMANENT CONTROL PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED THROUGHOUT CONSTRUCTION TO ENSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED IN A FUNCTIONAL CONDITION UNTIL ALL UP SLOPE AREAS THEY CONTROL ARE PERMANENTLY STABILIZED.

MAINTENANCE REQUIREMENTS DURING CONSTRUCTION (WHERE APPLICABLE)

A. BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE
B. SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND. REPAIRS ARE TO BE MADE PROMPTLY.
C. IF APPLICABLE, THE SEDIMENT BASIN WILL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 40 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB.
D. IF APPLICABLE, DIVERSION DIKES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.
E. TEMPORARY AND PERMANENT SEEDING AND PLANTINGS WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

DEWATERING REQUIREMENTS DURING CONSTRUCTION

THERE SHALL BE NO SEDIMENT-LADEN DISCHARGES TO SURFACE WATERS RESULTING FROM DEWATERING ACTIVITIES. SHOULD DEWATERING BE REQUIRED, E.G., FROM TRENCHES, ETC,. DURING CONSTRUCTION, ALL WATER SHALL BE PUMPED TO THE TEMPORARY SEDIMENT BASINS, IF POSSIBLE, BEFORE BEING RELEASED TO DOWNSTREAM CHANNELS, STORM SEWERS, ETC. IF A TEMPORARY SEDIMENT BASIN IS NOT SHOWN ON THE PLAN, OR NOT ACHIEVABLE FOR DEWATERING, THE WATER SHALL BE PUMPED INTO A SEDIMENT TRAP OR THROUGH SEDIMENT BAGS ONTO A RELATIVELY FLAT SURFACE AWAY FROM INLET BASINS, STREAMS, ETC.

HAZARDOUS WASTE
CONSTRUCTION PERSONNEL, INCLUDING SUBCONTRACTORS WHO MAY USE OR HANDLE HAZARDOUS OR TOXIC MATERIALS, SHALL BE MADE AWARE OF THE FOLLOWING GENERAL GUIDELINES REGARDING DISPOSAL AND HANDLING OF HAZARDOUS AND CONSTRUCTION WASTES:

1. PREVENT SPILLS
2. USE PRODUCTS UP
3. FOLLOW LABEL DIRECTIONS FOR DISPOSAL
4. REMOVE LIDS FROM EMPTY BOTTLES AND CANS WHEN DISPOSING IN TRASH
5. RECYCLE WASTES WHENEVER POSSIBLE
6. DON'T POUR INTO WATERWAYS, STORM DRAINS OR ONTO THE GROUND
7. DON'T POUR DOWN THE SINK, FLOOR DRAIN OR SEPTIC TANKS
8. DON'T BURY CHEMICALS OR CONTAINERS
9. DON'T BURN CHEMICALS OR CONTAINERS
10. DON'T MIX CHEMICALS TOGETHER

SPILL REPORTING REQUIREMENTS
SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST, KITTY LITTER OR OTHER ABSORBANT MATERIAL AND DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY LANDFILL. HAZARDOUS OR INDUSTRIAL WASTES SUCH AS MOST SOLVENTS, GASOLINE, OIL-BASED PAINTS, AND CEMENT CURING COMPOUNDS REQUIRE SPECIAL HANDLING. SPILLS SHALL BE REPORTED TO OHIO EPA (1-800-282-9378). SPILLS OF 25 GALLONS OR MORE OF PETROLEUM PRODUCTS SHALL BE REPORTED TO OHIO EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MIN. OF THE DISCOVERY OF THE RELEASE. ALL SPILLS, WHICH RESULT IN CONTACT WITH WATERS OF THE STATE, MUST BE REPORTED TO OHIO EPA'S HOTLINE.

HANDLING CONSTRUCTION CHEMICALS
MIXING, PUMPING, TRANSFERRING OR OTHER HANDLING OF CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREAAWAY FROM ANY WATERCOURSE, DITCH OR STORM DRAIN.

EQUIPMENT FUELING AND MAINTENANCE
EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC., SHALL BE PERFORMED AWAY FROM WATERCOURSES, DITCHES OR STORM DRAINS, IN AN AREA DESIGNATED FOR THAT PURPOSE. THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS. SECONDARY CONTAINMENT SHALL BE PROVIDED FOR ALL FUEL OIL STORAGE TANKS. THESE AREAS MUST BE INSPECTED EVERY SEVEN DAYS AND WITHIN 24 HRS. OF A 0.5 INCH OR GREATER RAIN EVENT TO ENSURE THERE ARE NO EXPOSED MATERIALS WHICH WOULD CONTAMINATE STORM WATER. SITE OPERATORS MUST BE AWARE THAT SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) REQUIREMENTS MAY APPLY. AN SPCC PLAN IS REQUIRED FOR SITES WITH ONE SINGLE ABOVEGROUND TANK OF 660 GALLONS OR MORE, ACCUMULATIVE ABOVEGROUND STORAGE OF 1330 GALLONS OR MORE, OR 42,000 GALLONS OF UNDERGROUND STORAGE. SOILS THAT HAVE BECOME CONTAMINATED MUST BE DISPOSED OF ACCORDANCE WITH THE "CONTAMINATED SOILS" NOTE.

CONTAMINATED SOILS
IF SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC. ARE SPILLED, LEAKED, OR RELEASED ONTO THE SOIL, THE SOIL SHOULD BE DUG UP AND DISPOSED OF AT LICENSED SANITARY LANDFILL OR OTHER APPROVED PETROLEUM CONTAMINATED SOIL REMEDIATION FACILITY (NOT A CONSTRUCTION/DEMOLITION DEBRIS LANDFILL). PLEASE BE AWARE THAT STORM WATER RUN OFF ASSOCIATED WITH CONTAMINATED SOILS ARE NOT AUTHORIZED UNDER OHIO EPA'S GENERAL STORM WATER PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITIES. IN THE EVENT THERE ARE LARGE EXTENSIVE AREAS OF CONTAMINATED SOILS ADDITIONAL MEASURES ABOVE AND BEYOND THE CONDITIONS OF OHIO EPA'S GENERAL CONSTRUCTION STORM WATER PERMIT WILL BE REQUIRED.

DEPENDING ON THE EXTENT OF CONTAMINATION, ADDITIONAL TREATMENT AND/OR COLLECTION AND DISPOSAL MAY BE REQUIRED. ALL STORM WATER DISCHARGES ASSOCIATED WITH THE CONTAMINATED SOILS MUST BE AUTHORIZED UNDER AN ALTERNATE NPDES (NATIONAL POLLUTANT DISCHARGE ELIMINATION PERMIT.

CONCRETE WASH WATER/WASH OUTS
CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER. FIELD TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10 FT. OF THE SUMP SHALL BE CUT AND PLUGGED.

CONSTRUCTION WASTE
CONTAINERS SHALL BE PROVIDED FOR THE PROPER COLLECTION OF ALL WASTE MATERIAL INCLUDING CONSTRUCTION DEBRIS, TRASH, PETROLEUM PRODUCTS AND ANY HAZARDOUS MATERIALS USED ON-SITE. CONTAINERS SHALL BE COVERED AND NOT LEAKING. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL. CONSTRUCTION DEMOLITION AND DEBRIS (CD&D) WASTE MUST BE DISPOSED OF AT AN OHIO EPA APPROVED CD&D LANDFILL.

NO CONSTRUCTION RELATED WASTE MATERIALS ARE TO BE BURIED ON-SITE. BY EXCEPTION, CLEAN FILL (BRICKS, HARDENED CONCRETE, SOIL) MAY BE UTILIZED IN A WAY WHICH DOES NOT ENCROACH UPON NATURAL WETLANDS, STREAMS OR FLOODPLAINS OR RESULT IN THE CONTAMINATION OF WATERS OF THE STATE.

CONSTRUCTION DEMOLITION AND DEBRIS (CD&D) WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH ORC 3714 AT AN APPROVED OHIO EPA CD&D LANDFILL.

OPEN BURNING
NO MATERIALS MAY BE BURNED WHICH CONTAIN RUBBER, GREASE, ASPHALT, OR PETROLEUM PRODUCTS SUCH AS TIRES, CARS, AUTOPARTS, PLASTICS OR PLASTIC COATED WIRE. (SEE OAC 3745-19)

OPEN BURNING IS NOT ALLOWED IN RESTRICTED AREAS. RESTRICTED AREAS ARE DEFINED AS:

1) WITHIN CORPORATION LIMITS
2) WITHIN 1000 FEET OUTSIDE A MUNICIPAL CORPORATION HAVING A POPULATION OF 1000 TO 10,000
3) A ONE MILE ZONE OUTSIDE OF A CORPORATION OF 10, 000 OR MORE.
4) WITHIN HALF MILE OF A SCHOOL OR PLAYGROUND.

OUTSIDE A RESTRICTED AREA, NO OPEN BURNING CAN TAKE PLACE WITHIN A 1000 FEET OF AN INHABITED BUILDING LOCATED OFF THE PROPERTY WHERE THE FIRE IS SET.

OPEN BURNING IS PERMISSIBLE IN A RESTRICTED AREA FOR THE FOLLOWING ACTIVITIES:

1. HEATING TAR, WELDING AND ACETYLENE TORCHES, SMUDGE POTS AND SIMILAR OCCUPATIONAL NEEDS
2. HEATING FOR WARMTH OR OUTDOOR BARBEQUES. OUTSIDE OF RESTRICTED AREAS

DUST CONTROL/SUPPRESSANTS
DUST CONTROL IS REQUIRED TO PREVENT NUISANCE CONDITIONS. DUST CONTROLS MUST BE USED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND NOT BE APPLIED IN A MANNER, WHICH WOULD RESULT IN A DISCHARGE TO WATERS OF THE STATE. ISOLATION DISTANCES FROM BRIDGES, CATCH BASINS, AND OTHER DRAINAGEWAYS MUST BE OBSERVED. APPLICATION (EXCLUDING WATER) MAY NOT OCCUR WHEN PRECIPITATION IS IMMINENT AS NOTED IN THE SHORT TERM FORECAST. USED OIL MAY NOT BE APPLIED FOR DUST CONTROL.

POST-CONSTRUCTION INSPECTION PROCEDURE

1. (NA)

POST CONSTRUCTION STORMWATER MANAGEMENT PRACTICES

NONE REQUIRED.

RAINWATER AND LAND DEVELOPMENT MANUAL

THE OHIO EPA RECOMMENDS THAT EROSION, SEDIMENT AND STORMWATER MANAGEMENT PRACTICES USED TO SATISFY THE CONDITIONS OF THIS PERMIT SHOULD MEET THE STANDARDS AND SPECIFICATIONS IN THE MOST CURRENT EDITION OF THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL, 2006 VERSION WITH UPDATES THROUGH 2023.

24-114
New Fire Station
City of Rocky River
21012 Hilliard Blvd
Rocky River, Ohio 44116

ISSUE	DATE
Design Development	06-19-2025
Final Planning Commission	08-04-2025

SWPP PLAN DETAILS

ES 1.0

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PERSPECTUS

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TEMPORARY SEEDING (TS)

DESCRIPTION

TEMPORARY SEEDINGS ESTABLISH TEMPORARY COVER ON DISTURBED AREAS BY PLANTING APPROPRIATE RAPIDLY GROWING ANNUAL GRASSES OR SMALL GRAINS. TEMPORARY SEEDING PROVIDES EROSION CONTROL ON AREAS IN BETWEEN CONSTRUCTION OPERATIONS. GRASSES, WHICH ARE QUICK GROWING, ARE SEEDED AND USUALLY MULCHED TO PROVIDE PROMPT, TEMPORARY SOIL STABILIZATION. IT EFFECTIVELY MINIMIZES THE AREA OF A CONSTRUCTION SITE PRONE TO EROSION AND SHOULD BE USED EVERYWHERE THE SEQUENCE OF CONSTRUCTION OPERATIONS ALLOWS VEGETATION TO BE ESTABLISHED.

SPECIFICATIONS FOR TEMPORARY SEEDING

TEMPORARY SEEDING SPECIES SELECTION			
SEEDING DATES	SPECIES	LB./1,000 SF	LB./ACRE
MARCH 1 TO AUGUST 15	OATS	3	128 (4 BUSHEL)
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	PERENNIAL RYEGRASS	1	40
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	ANNUAL RYEGRASS	1.25	55
	PERENNIAL RYEGRASS	3.25	142
	CREEPING RED FESCUE	0.4	17
	KENTUCKY BLUEGRASS	0.4	17
	OATS	3	128 (3 BUSHEL)
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
AUGUST 16 TO NOVEMBER	RYE	3	112 (2 BUSHEL)
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	WHEAT	3	120 (2 BUSHEL)
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	PERENNIAL RYEGRASS	1	40
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	ANNUAL RYEGRASS	1.25	40
	PERENNIAL RYEGRASS	3.25	40
	CREEPING RED FESCUE	0.4	40
	KENTUCKY BLUEGRASS	0.4	0
NOVEMBER 1 TO FEB. 29	USE MULCH ONLY OR DORMANT SEEDING		

NOTE: OTHER APPROVED SPECIES MAY BE SUBSTITUTED.

Permanent Stabilization	
Area requiring permanent stabilization	Time frame to apply erosion controls
Any areas that will lie dormant for one year or more	Within seven days of the most recent disturbance
Any areas within 50 feet of a surface water of the state and at final grade	Within two days of reaching final grade
Any other areas at final grade	Within seven days of reaching final grade within that area
Temporary Stabilization	
Area requiring temporary stabilization	Time frame to apply erosion controls
Any disturbed areas within 50 feet of a surface water of the state and not at final grade	Within two days of the most recent disturbance if the area will remain idle for more than 14 days
For all construction activities, any disturbed areas that will be dormant for more than 14 days but less than one year, and not within 50 feet of a surface water of the state	Within seven days of the most recent disturbance within the area For residential subdivisions, disturbed areas must be stabilized at least seven days prior to transfer of permit coverage for the individual lot(s).
Disturbed areas that will be idle over winter	Prior to the onset of winter weather

NOTES:

A. STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION SITE.
B. TEMPORARY SEED SHALL BE APPLIED BETWEEN CONSTRUCTION OPERATIONS ON SOIL THAT WILL NOT BE GRADED OR REWORKED FOR 21 DAYS OR GREATER. THESE IDLE AREAS SHALL BE SEEDED WITHIN 7 DAYS AFTER GRADING.
C. THE SEEDBED SHOULD BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. TEMPORARY SEEDING SHOULD NOT BE POSTPONED IF IDEAL SEEDBED PREPARATION IS NOT POSSIBLE.
D. SOIL AMENDMENTS - TEMPORARY VEGETATION SEEDING RATES SHALL ESTABLISH ADEQUATE STANDS OF VEGETATION, WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. BASE RATES FOR LIME AND FERTILIZER SHALL BE USED.
E. SEEDING METHOD - SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SPREADER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPED INTO PLACE USING A ROLLER OR CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON-SITE AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

MULCHING TEMPORARY SEEDING

A. APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH, WHICH SHALL BE APPLIED DURING OR IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES ON FAVORABLE, VERY FLAT SOIL CONDITIONS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION.
B. MATERIALS:
- STRAW - IF STRAW IS USED, IT SHALL BE UNROTTED SMALL-GRAIN STRAW APPLIED AT A RATE OF 2 TONS/ACRE OR 90 LBS./1,000 SQ.-FT. (2-3 BALES)
- HYDROSEEDERS - IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2,000 LBS./AC. OR 46 LB./1,000 SQ.-FT.
- OTHER - OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TON/AC.

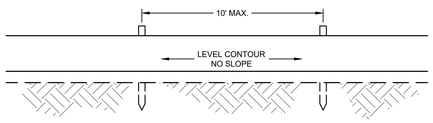
C. STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER. ANCHORING METHODS:
- MECHANICAL - A DISK, CRIMPER, OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT LEFT TO A LENGTH OF APPROXIMATELY 6 INCHES.
- MULCH NETTING - NETTING SHALL BE USED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES.
- SYNTHETIC BINDERS - SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TRACK OR EQUIVALENT MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER.
- WOOD-CELLULOSE FIBER - WOOD -CELLULOSE FIBER BINDER SHALL BE APPLIED AT A NET DRY WT. OF 750 LB./AC. THE WOOD-CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB./100 GAL.

SILT FENCE (SF)

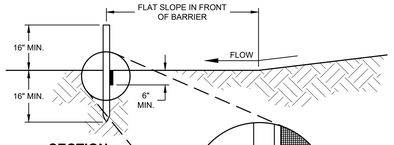
DESCRIPTION

SILT FENCE IS A SEDIMENT-TRAPPING PRACTICE UTILIZING A GEOTEXTILE FENCE. TOPOGRAPHY AND SOMETIMES VEGETATION TO CAUSE SEDIMENT DEPOSITION. SILT FENCE REDUCES RUNOFF'S ABILITY TO TRANSPORT SEDIMENT BY PONDING RUNOFF AND DISSIPATING SMALL RILLS OR CONCENTRATED FLOW INTO UNIFORM SHEET FLOW. SILT FENCE IS USED TO PREVENT SEDIMENT-LADEN SHEET RUNOFF FROM ENTERING INTO DOWNSTREAM CREEKS AND SEWER SYSTEMS.

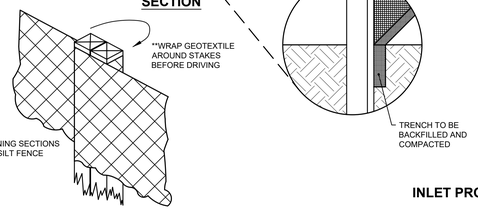
SPECIFICATIONS FOR SILT FENCE



ELEVATION



SECTION



A. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
B. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
C. ENDS OF THE SILT FENCE SHOULD BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
D. SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
E. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
F. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
G. THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATE UNIFORM TRENCH DEPTH.
H. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE. A MINIMUM OF 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6-INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.
I. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-IN. OVERLAP PRIOR TO DRIVING INTO GROUND, (SEE DETAIL).
J. MAINTENANCE - SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER THE FABRIC OR AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FOLLOWING SHALL BE PREFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.
- SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE SILT FENCE.
- SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. THE LOCATION OF THE EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

CRITERIA FOR SILT FENCE MATERIALS:

A. FENCE POST - THE LENGTH SHALL BE A MINIMUM OF 32 INCHES. WOOD POST WILL BE 2-BY-2-IN. NOMINAL DIMENSIONED HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, SPLITS, AND OTHER VISIBLE IMPERFECTIONS, THAT WILL WEAKEN THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT. POSTS SHALL BE DRIVEN A MINIMUM 16 INCHES INTO THE GROUND, WHERE POSSIBLE. IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENTWATER LOADING.
B. SILT FENCE FABRIC - SEE CHART BELOW.

FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LBS (535 N)	ASTM D 4632
MAXIMUM ELONGATION AT 60 LBS	50 %	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 LBS (220 N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 LBS (180 N)	ASTM D 4533
APPARENT OPENING SIZE	≤ 0.84 mm	ASTM D 4751
MINIMUM PERMITTIVITY	1 x 10^{-2} SEC.$^{-1}$	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM D 4355

DUST CONTROL (DC)

DESCRIPTION

DUST CONTROL INVOLVES PREVENTING OR REDUCING DUST FROM EXPOSED SOILS OR OTHER SOURCES DURING LAND DISTURBING, DEMOLITION AND CONSTRUCTION ACTIVITIES TO REDUCE THE PRESENCE OF AIR-BORNE SUBSTANCES WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS OR HARM ANIMAL OR PLANT LIFE.

SPECIFICATIONS FOR DUST CONTROL

A. VEGETATIVE COVER AND/MULCH - APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 21 DAYS. SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUCE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS. SEE TEMPORARY SEEDING; PERMANENT SEEDING; MULCHING PRACTICES; AND TREE AND NATURAL AREA PROTECTION PRACTICES.
B. WATERING - SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEEDED, ESPECIALLY ON HAUL ROADS AND OTHER HEAVY TRAFFIC ROUTES. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION. WETTING AGENTS SHALL BE UTILIZED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
C. SPRAY-ON ADHESIVES - APPLY ADHESIVE ACCORDING TO THE FOLLOWING TABLE OR MANUFACTURERS' INSTRUCTIONS.
D. STONE - GRADED ROADWAYS AND OTHER SUITABLE AREAS WILL BE STABILIZED USING CRUSHED STONE OR COARSE GRAVEL AS SOON AS PRACTICABLE AFTER REACHING AN INTERIM OR FINAL GRADE. CRUSHED STONE OR COARSE GRAVEL CAN BE USED AS A PERMANENT COVER TO PROVIDE CONTROL OF SOIL EMISSIONS.
E. BARRIERS - EXISTING WINDBREAK VEGETATION SHALL BE MARKED AND PRESERVED. SNOW FENCING OR OTHER SUITABLE BARRIER MAY BE PLACED PERPENDICULAR TO PREVAILING AIR CURRENTS AT INTERVALS OF ABOUT 15 TIMES THE BARRIER HEIGHT TO CONTROL AIR CURRENTS AND BLOWING SOIL.
F. CALCIUM CHLORIDE - THIS CHEMICAL MAY BE APPLIED BY MECHANICAL SPREADER AS LOOSE, DRY GRANULES OR FLAKES AT A RATE THAT KEEPS THE SURFACE MOIST BUT NOT SO HIGH AS TO CAUSE WATER POLLUTION OR PLANT DAMAGE. APPLICATION RATES SHOULD BE STRICTLY IN ACCORDANCE WITH SUPPLIERS' SPECIFIED RATES.
G. OPERATION AND MAINTENANCE - WHEN TEMPORARY DUST CONTROL MEASURES ARE USED; REPETITIVE TREATMENT SHOULD BE APPLIED AS NEEDED TO ACCOMPLISH CONTROL.
STREET CLEANING - PAVED AREAS THAT HAVE ACCUMULATED SEDIMENT FROM CONSTRUCTION SHOULD BE CLEANED DAILY, OR AS NEEDED, UTILIZING A STREET SWEEPER OR BUCKET -TYPE ENDLOADER OR SCRAPER.

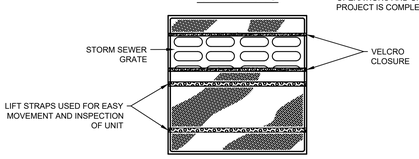
ADHESIVES FOR DUST CONTROL

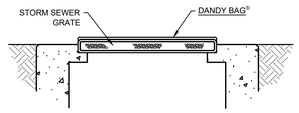
ADHESIVE	WATER DILUTION (ADHESIVE: WATER)	NOZZLE TYPE	APPLICATION RATE (GAL./AC.)
LATEX EMULSION	12.5:1	FINE	235
RESIN IN WATER ACRYLIC EMULSION (NO-TRAFFIC)	4:1	FINE	300
ACRYLIC EMULSION (NO-TRAFFIC)	7:1	COARSE	450
ACRYLIC EMULSION (TRAFFIC)	3.5:1	COARSE	350

INLET PROTECTION (IP)

DANDY BAG®

NOTE:
INSTALL AND MAINTAIN DURING MILLING OPERATIONS AND UNTIL PROJECT IS COMPLETED



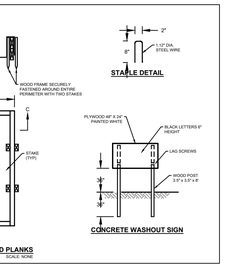


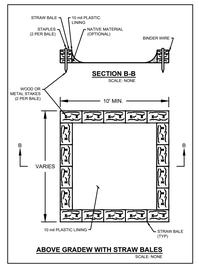
NOTE: THE DANDY BAG WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

HI-FLOW DANDY BAG® (SAFETY ORANGE)

MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	kN (lbs)	1.62 (365) X 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 X 10
PUNCTURE STRENGTH	ASTM D 4833	kN (LBS)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3786	KPa (PSI)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	kN (LBS)	0.51 (115) X 0.33 (75)
UV RESISTANCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	Mm (US STD SIEVE)	0.425 (4)
FLOW RATE	ASTM D 4491	1/MIN/M^2 (GAL/MIN/FT^2)	5907 (145)
PERMITTIVITY	ASTM D 4491	SEC^{-1}	2.1000

*NOTE: ALL DANDY BAGS® CAN BE ORDERED WITH OUR OPTIONAL OIL ABSORBENT PILLOWS





CONCRETE WASHOUT DETAILS

SCALE: NONE

NOTES:

A. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
B. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30'-0" OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
C. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.
D. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.

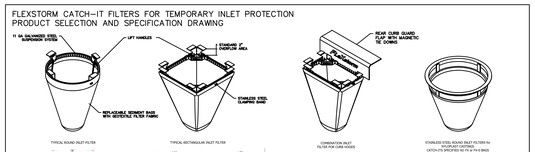
CWA INSTALLATION NOTES

A. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
B. BERM SURROUNDING SIDES AND BACK OF CWA SHALL HAVE A MINIMUM HEIGHT OF 1'-0".
C. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
D. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

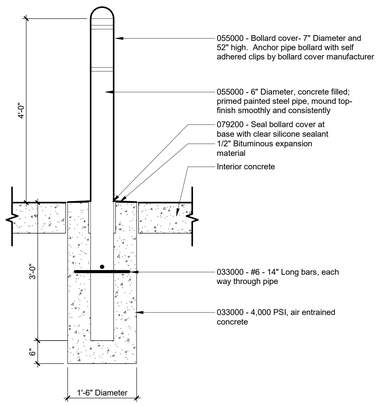
CWA MAINTENANCE NOTES

A. INSPECT BMP'S EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMP'S SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMP'S AS SOON AS POSSIBLE (AND ALWAYS WITH 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
B. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMP'S IN EFFECTIVE OPERATING CONDITIONS. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
C. WHERE BMP'S HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
D. THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'-0".
E. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
F. THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
G. WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

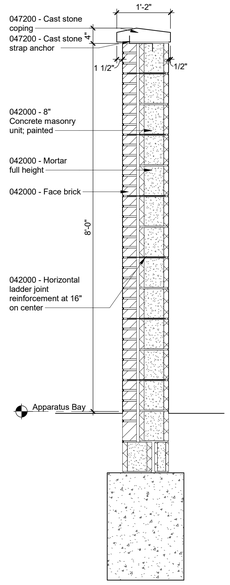
FLEXSTORM CATCH-IT FILTERS FOR TEMPORARY INLET PROTECTION
PRODUCT SELECTION AND SPECIFICATION DRAWING



1. UNDERDECK FRAME SIZE AND SIZE			
STYLE		ANSMAX L/TSLA AND SIZE	Flexstorm P/N
GRATE	Grate Alloy 6063 Cast for 20.5" O.D. ring w/ slots (2) 4" O.D.		52003
	Grate Alloy 6063 Cast for 20.5" O.D. ring w/ slots (4) 2.5" O.D. (24" O.D. for 6" ring)		52004
	Grate Alloy 6063 Cast, 17" - 19.25" O.D. ring w/ slots (16) 1.25" W, 6" deep (4) Top (12)		52005
	(5) Alloy 6061 CNC, 7" dia. - 36" O.D. ring w/ (16) 1.25" W, 6" O.D. (4) on 90° (12)		52100
	Grate Steel 1 SQ. per 1, 1 PC 36" O.D. x 36" I.D. (12) square cut 90° (24) 1" W, 6"		52006
	Steel Mesh / 1 SQ. per 1, 1 PC 36" O.D. x 36" I.D. (12) square cut 90° (24) 1" W, 6"		52006
	Grate Steel 1 SQ. per 1, 1 PC 36" O.D. x 36" I.D. (12) square cut 2.38" (24) 1" W, 6"		52006
	(5) Alloy 6061 CNC, 7" dia. - 36" O.D. ring w/ (16) 1.25" W, 6" O.D. (4) on 90° (12)		52100
	Grate Steel 1 SQ. per 1, 1 PC 36" O.D. x 36" I.D. (12) square cut 90° (24) 1" W, 6"		52006
	Alloy Steel 1 SQ. per 1, 1 PC 36" O.D. x 36" I.D. (12) square cut 90° (24) 1" W, 6"		52006
	Grate Steel 1 SQ. per 1, 1 PC 36" O.D. ring, (12) slots w/ (24) 1" W, 6"		52006
	(5) Alloy 6061 CNC, 7" dia. - 36" O.D. ring w/ (16) 1.25" W, 6" O.D. (4) on 90° (12)		52100



8 A-010 INTERIOR BOLLARD DETAIL
Scale: 3/4" = 1'-0"



7 A-010 TRASH ENCLOSURE SCREEN WALL
Scale: 3/4" = 1'-0"

GENERAL NOTES - SITE PLAN

A. All vehicular and pedestrian circulation throughout municipal complex adjacent to new fire station shall remain unobstructed during construction, unless written notice is provided to the Owner.

B. Maintain clear and safe exits from the entire Municipal Complex at all times during construction.

C. Prior to performing any sitework, effort shall be made to determine whether underground utilities will be encountered, and where they are located. When an excavation approaches the estimated location of such installations, the exact location shall be determined.

D. Locate, protect, and maintain the working condition fo all utilities and structures. Existing utility information contained within the documents is not purported to be exact. It shall be the contractors responsibility to repair and/ or replace at his/ her expense, and to the Owner's satisfaction, any utilities and or structures damaged during construction.

E. Notify Ohio Utility Protection Services at least two days prior to the start of any work.

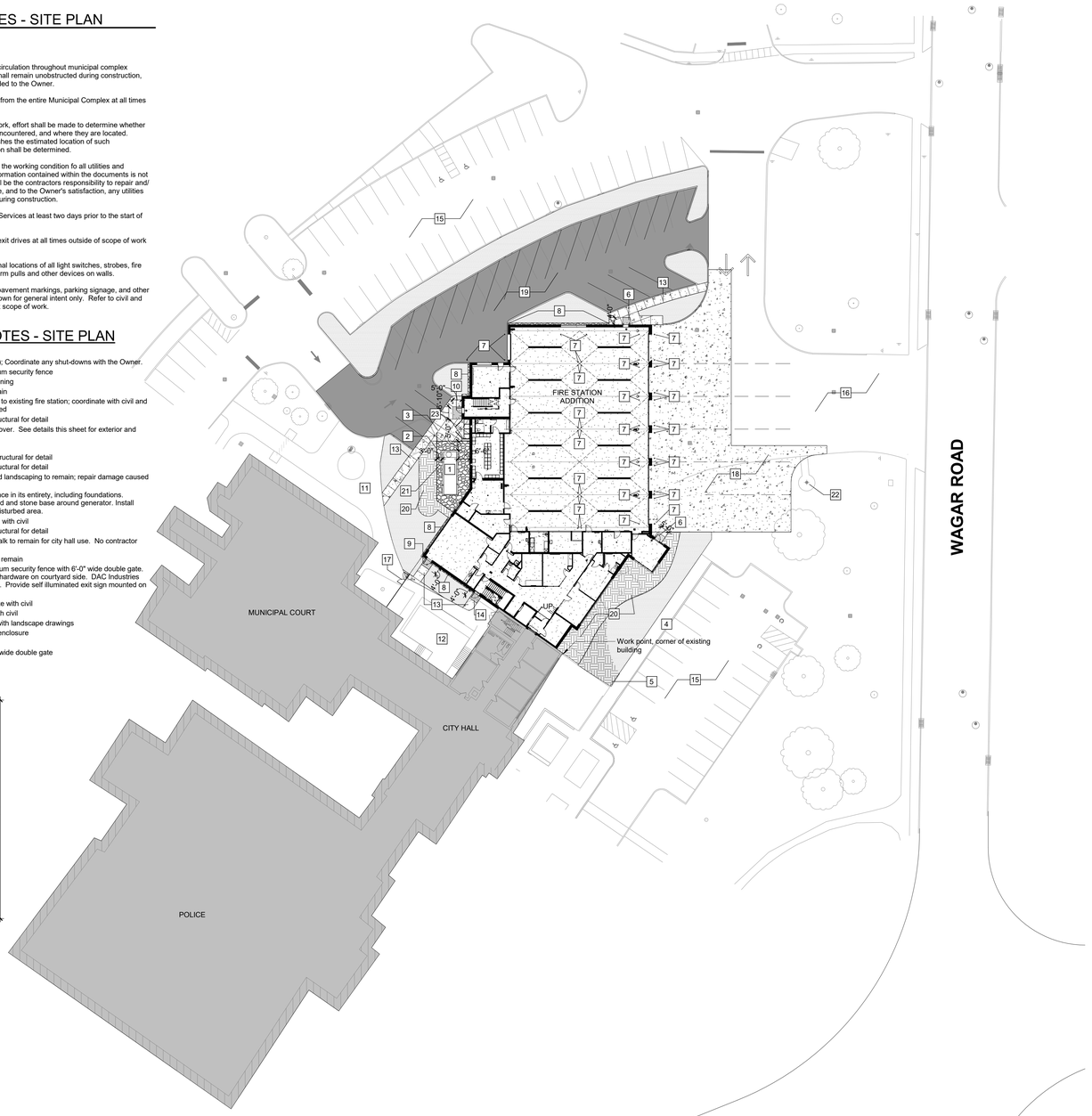
F. Maintain clear entrance and exit drives at all times outside of scope of work areas.

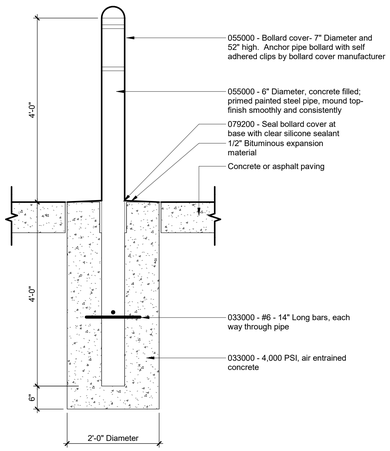
G. Verify in field with designer final locations of all light switches, strobes, fire extinguisher cabinets, fire alarm pulls and other devices on walls.

H. Pavement, curbs, concrete, pavement markings, parking signage, and other site improvements are for shown for general intent only. Refer to civil and landscape drawings for exact scope of work.

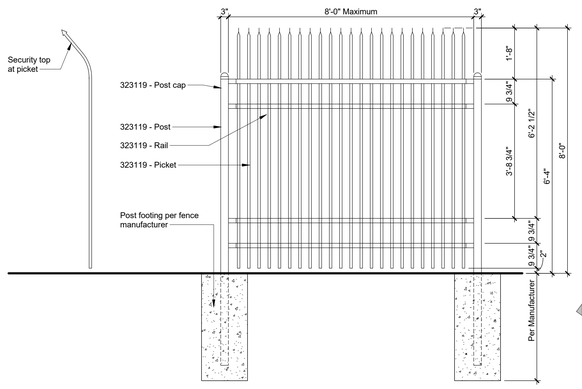
CODED NOTES - SITE PLAN

1 Existing generator (Relocated); Coordinate any shut-downs with the Owner.
2 323119 -8' Decorative aluminum security fence
3 323119 - 4'-8" Swing gate opening
4 Existing curb and walk to remain
5 Demo existing stairs and walk to existing fire station; coordinate with civil and landscape for infill work required
6 Frost slab; coordinate with structural for detail
7 055000 -Bollard with bollard cover. See details this sheet for exterior and interior bollards.
8 Gravel mow strip
9 Frost slab; coordinate with structural for detail
10 Frost slab; coordinate with structural for detail
11 Existing concrete sidewalk and landscaping to remain; repair damage caused by construction
12 Remove existing chain link fence in its entirety, including foundations. Remove existing generator pad and stone base around generator. Install new top soil and seed entire disturbed area.
13 Concrete sidewalk, coordinate with civil
14 Frost slab; coordinate with structural for detail
15 Existing parking lot and sidewalk to remain for city hall use. No contractor parking.
16 Existing curb cut and apron to remain
17 323119 - 8' Decorative aluminum security fence with 6'-0" wide double gate. Provide keyed lock and panic hardware on courtyard side. DAC Industries Inc Detex Exit Bar 6045-Black. Provide self illuminated exit sign mounted on courtyard side of gate.
18 Concrete pavement; coordinate with civil
19 New pavement; coordinate with civil
20 Coordinate new landscaping with landscape drawings
21 Gravel base within generator enclosure
22 Existing fire hydrant
23 Brick trash enclosure with 10' wide double gate

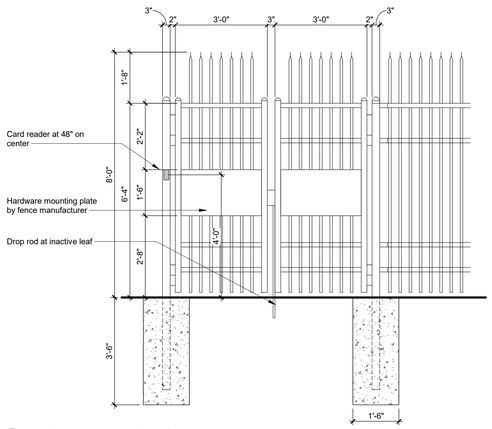




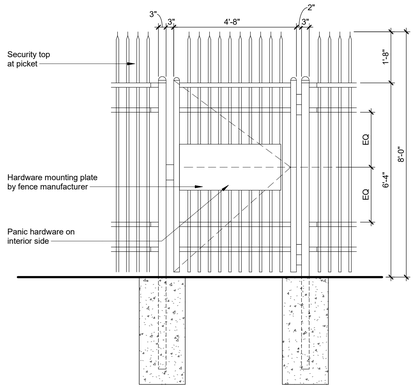
6 A-010 GALVANIZED EXTERIOR BOLLARD DETAIL
Scale: 3/4" = 1'-0"



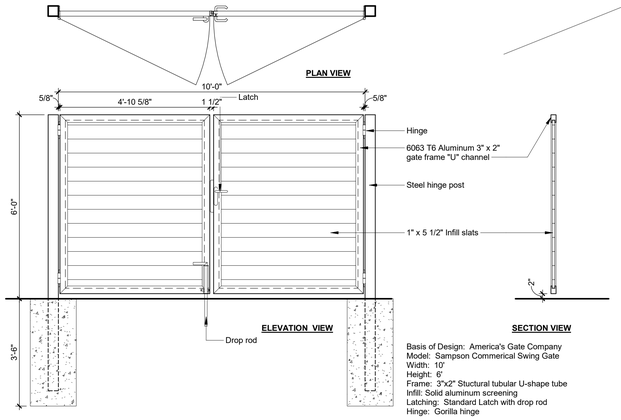
5 A-010 SECURITY FENCE
Scale: 1/2" = 1'-0"



4 A-010 DOUBLE FENCE GATE
Scale: 1/2" = 1'-0"



3 A-010 SINGLE FENCE GATE
Scale: 1/2" = 1'-0"



Basis of Design: America's Gate Company
Model: Sampson Commerical Swing Gate
Width: 10'
Height: 6'
Frame: 3"x2" Stuctural tubular U-shape tube
Infill: Solid aluminum screening
Latching: Standard Latch with drop rod
Hinge: Gorilla hinge

2 A-010 TRASH ENCLOSURE DOUBLE GATE
Scale: 1/2" = 1'-0"

1 A-010 ARCHITECTURAL SITE PLAN
Scale: 1" = 30'-0"

PERSPECTUS

PRELIMINARY
NOT FOR CONSTRUCTION

24-114
New Fire Station
City of Rocky River
21012 Hilliard Blvd
Rocky River, Ohio 44116

ISSUE	DATE
Schematic Design	03-26-2025
Pre-Preliminary Planning Commission	05-05-2025
Preliminary Planning Commission	06-03-2025
Design Development	06-19-2025
Design and Construction Board of Review	07-21-2025
Final Planning Commission	08-04-2025

ARCHITECTURAL SITE PLAN

A-010

PERSPECTUS

PRELIMINARY
NOT FOR CONSTRUCTION

LEGEND - FLOOR PLAN

- Existing construction to remain
- New construction
- Not in contract (NIC)
- CR — Card Reader
- FD — Floor Drain
- Custom millwork

GENERAL NOTES - FLOOR PLAN

A. All new partitions to be Type 'A1' unless noted otherwise. Refer to A6 series drawings for partition information.

B. Contractor to verify all dimensions and conditions in the field prior to commencement of work. If drawings conflict with actual field conditions, contact Architect prior to proceeding with work.

C. Refer to Life Safety Plans for rated wall locations.

D. Dashed furniture and equipment items shown for reference only and is not part of the General Contract. These items will be provided and installed by Owner. Contractor may need to coordinate specific fixture and equipment requirements if noted.

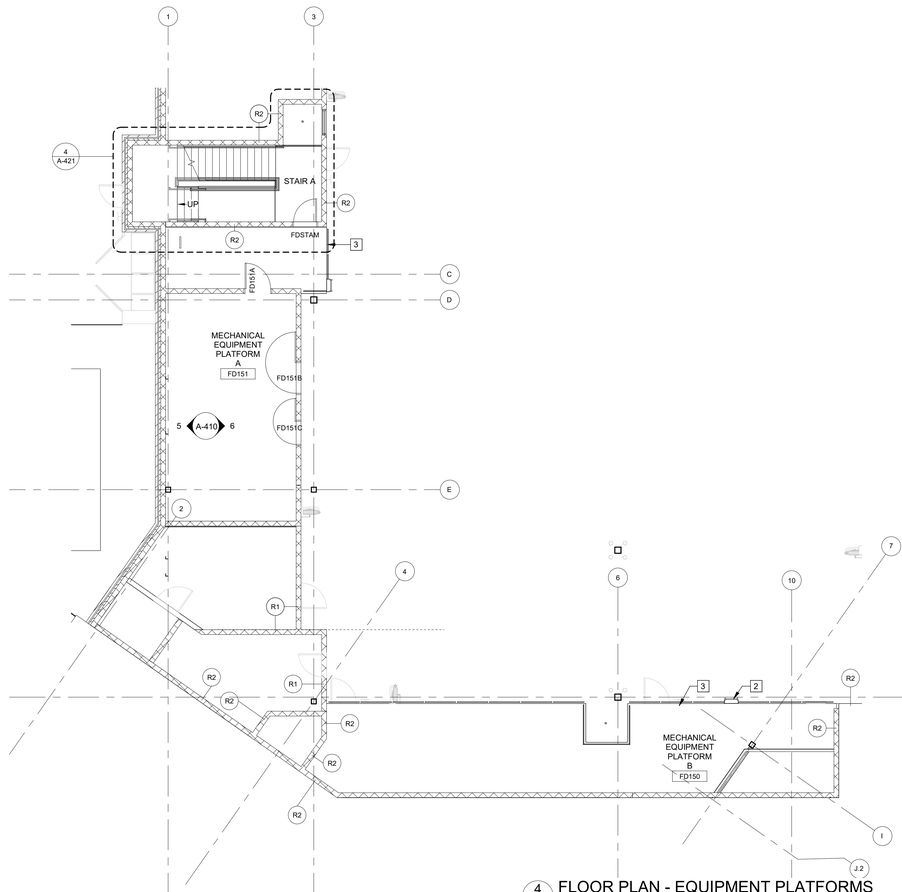
E. Provide concealed in-wall reinforcing/blocking for attachment of all millwork, casework, and/or accessories.

F. All dimensions are to finish face of gypsum board unless noted otherwise.

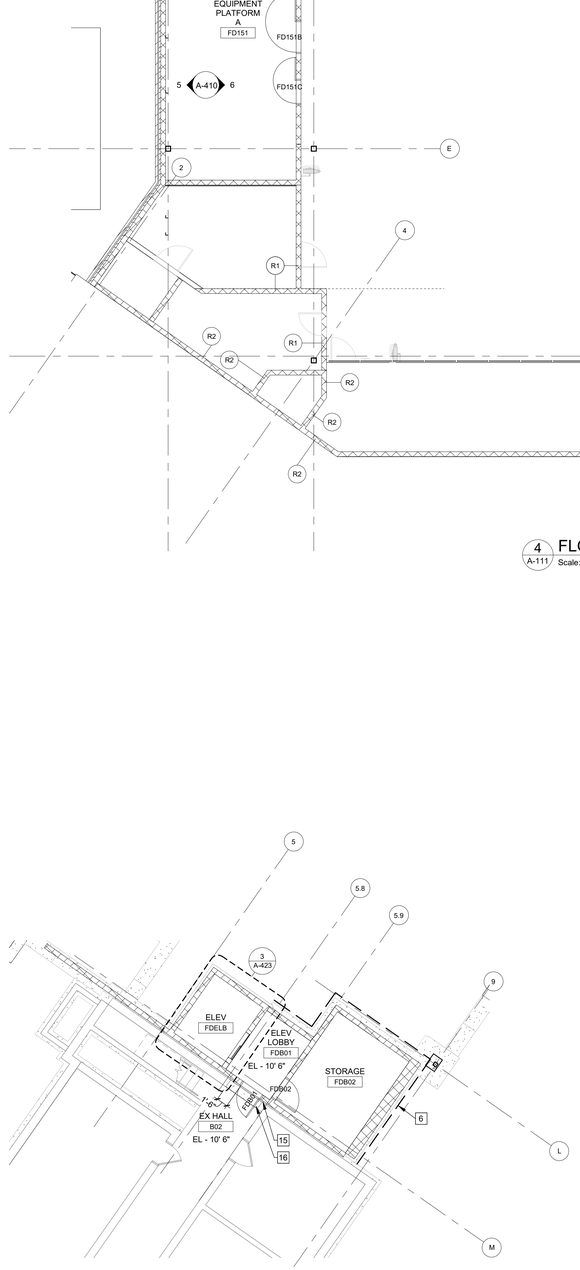
G. Verify in field with designer final locations of all light switches, strobes, fire extinguisher cabinets, fire alarm pulls and other devices on walls.

CODED NOTES - FLOOR PLAN

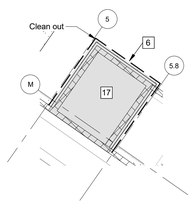
1 055000 - 6" Diameter pipe bollard with preformed cap and cover; coordinate with details on sheet A-010.
2 055000 - Steel access ladder
3 055123 - Removable guardrail
4 Trench drain,typical; coordinate with plumbing
5 042000 - All walls of compressor room to be grouted solid.
6 073100 - Waterproofing system with perforated foundation drain. Coordinate with plumbing and electrical drawings for any pipe and conduit sleeves through basement walls. Coordinate sealing of all basement/ foundation walls with waterproofing manufacturer's written requirements to ensure a watertight condition is maintained.
7 Water hose reel; coordinate with plumbing
8 Sprinkler fire riser
9 105213 - 24" Wide x 20" Deep wall mounted gear locker, typical
9A 105213 - 24" Wide by 20" Deep pedestal mounted gear locker, typical
10 105113 - Wardrobe locker, typical
11 107513 - Fire pole
12 High abuse gypsum board to 8'0" all walls this room/area. Standard gypsum board above.
13 High abuse gypsum board to 4'0" where indicated by dashed line. Standard gypsum board above.
14 Fur out wall this location for flush condition
15 079513 - Interior expansion joint assembly. Typical floor, wall and ceiling
16 Infill existing floor with concrete where wall was removed.
17 073100 - Poche indicates horizontal blindside waterproofing system at elevator pit. Coordinate transition at vertical waterproofing system at pit walls.
18 Firefighter training zone. Absolutely no MEPT equipment (conduits, panels, sensors, sprinkler heads, thermostats, etc.) in this area.
19 033000 - 2'-0" x 6'-0" Recessed board formed mop basin
20 Applied painted MDF accent panel. Finish all exposed edges/faces, see finish plan for stop/start points. See detail for trim where applicable
21 085312 - Bay door central control station. Mount at 4'-0".



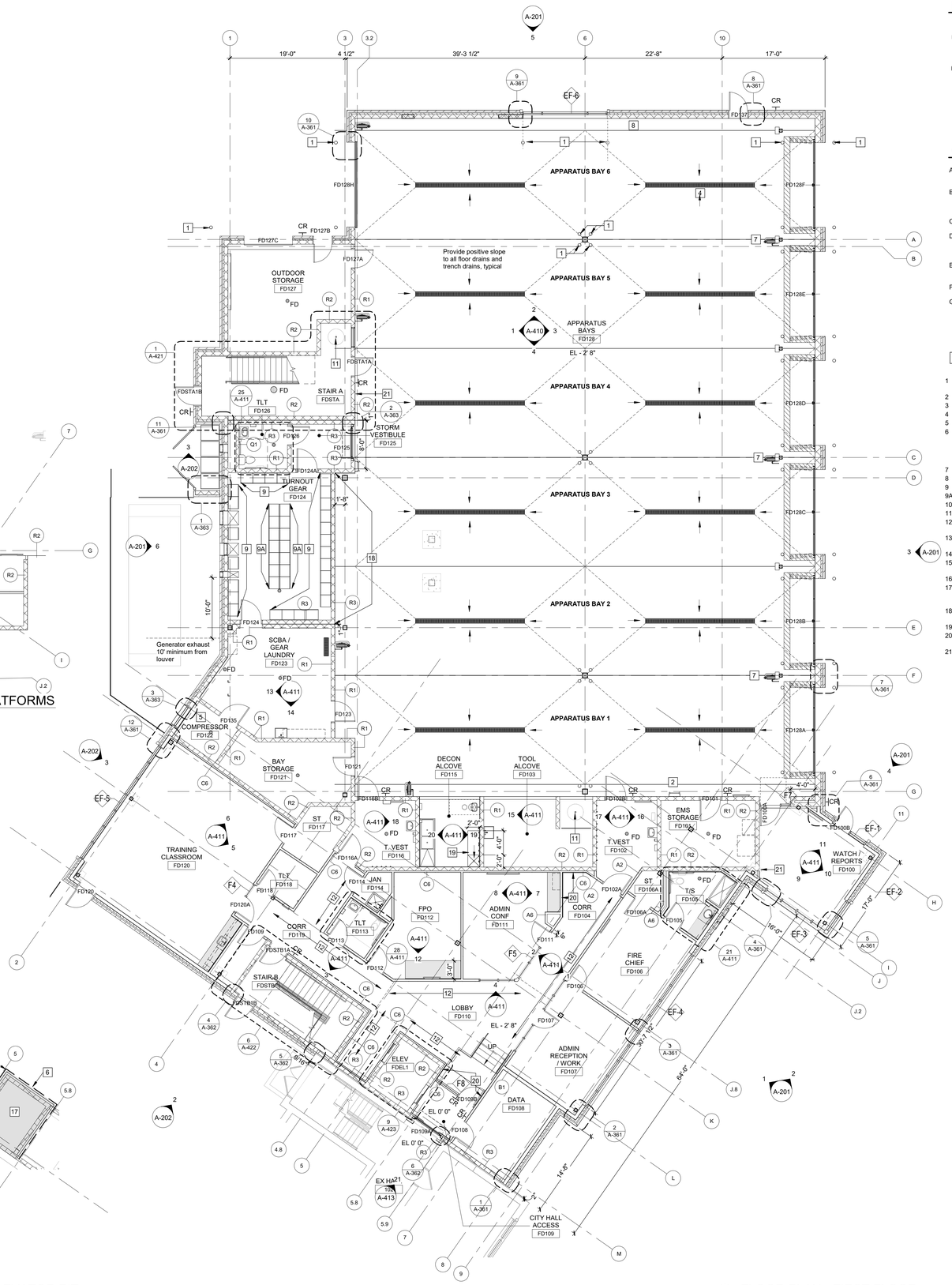
4 A-111 FLOOR PLAN - EQUIPMENT PLATFORMS
Scale: 1/8" = 1'-0"



3 A-111 FLOOR PLAN - BASEMENT
Scale: 1/8" = 1'-0"



2 A-111 FLOOR PLAN - ELEVATOR PIT
Scale: 1/8" = 1'-0"



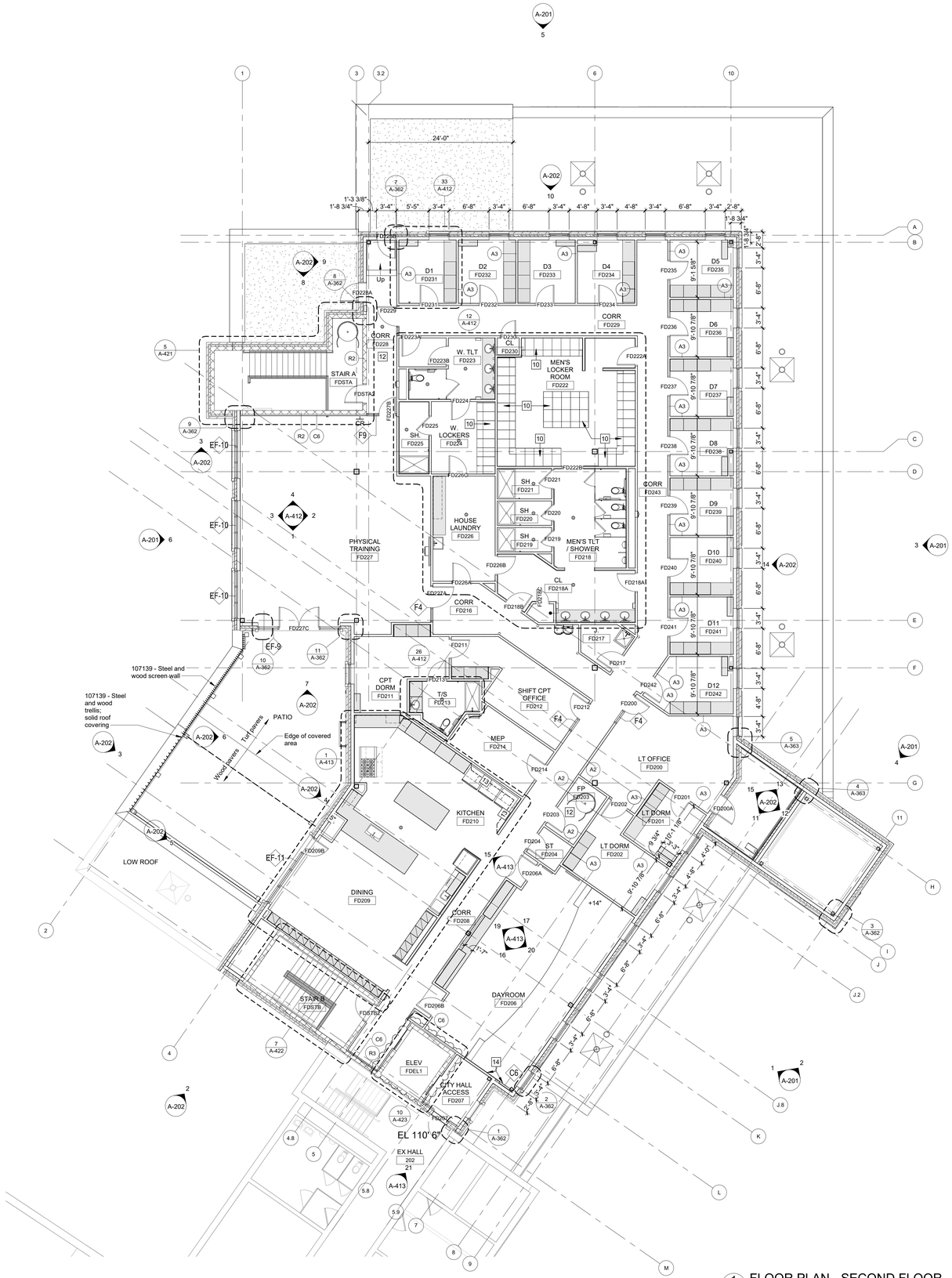
1 A-111 FLOOR PLAN - FIRST FLOOR
Scale: 1/8" = 1'-0"

24-114 **New Fire Station**
City of Rocky River
21012 Hilliard Blvd
Rocky River, Ohio 44116

ISSUE	DATE
Schematic Design	03-26-2025
Pre-Preliminary Planning Commission	05-05-2025
Preliminary Planning Commission	06-03-2025
Design Development	06-19-2025
Design and Construction Board of Review	07-21-2025
Final Planning Commission	08-04-2025

FLOOR PLANS - BASEMENT, FIRST FLOOR & EQUIPMENT PLATFORMS

A-111



1 A-112 FLOOR PLAN - SECOND FLOOR

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

9, 739 SF + Patio 864 SF

LEGEND - FLOOR PLAN

	Existing construction to remain
	New construction
	Not in contract (NIC)
CR	Card Reader
FD	Floor Drain
	Custom millwork

GENERAL NOTES - FLOOR PLAN

A. All new partitions to be Type 'A1' unless noted otherwise. Refer to A6 series drawings for partition information.

B. Contractor to verify all dimensions and conditions in the field prior to commencement of work. If drawings conflict with actual field conditions, contact Architect prior to proceeding with work.

C. Refer to Life Safety Plans for rated wall locations.

D. Dashed furniture and equipment items shown for reference only and is not part of the General Contract. These items will be provided and installed by Owner. Contractor may need to coordinate specific fixture and equipment requirements if noted.

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F. All dimensions are to finish face of gypsum board unless noted otherwise.

G. Verify in field with designer final locations of all light switches, strobes, fire extinguisher cabinets, fire alarm pulls and other devices on walls.

CODED NOTES - FLOOR PLAN

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20 Applied painted MDF accent panel. Finish all exposed edges/faces, see finish plan for stop/start points. See detail for trim where applicable
21 085312 - Bay door central control station. Mount at 4'-0".

PERSPECTUS

PRELIMINARY
NOT FOR CONSTRUCTION

24-114
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FLOOR PLAN - SECOND FLOOR

A-112

PERSPECTUS

PRELIMINARY
NOT FOR CONSTRUCTION

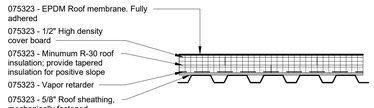
GENERAL NOTES - ROOF PLAN

A. Roof penetrations indicated have been coordinated with mechancial, electrical and plumbing design intent - refer to mechanical, electrical and plumbing drawings for a complete indication of all penetrations required. Coordinate final exent, number and location of all openings and penetrations with trades requiring penetrations.
B. Unless otherwise noted, positive roof slope for drainage is achieved by the used of tapered insulation. Minimum slope is 1/4 inch per foot unless noted otherwise.
C. Coordinate installation of equipment curbs with mechanical.
D. Flash and terminate roofing at penetrations, edges, parapets, etc per National Roofing Council of America and manufacturer's written recommendations. Flashing and terminations shall occur eight inches (8") minimum above roof membrane.
E. Extend roofing system up and over all parapets. Membrane shall cover entire top (horizontal) surface of parapet, extend beyond and 1" below nailer and fasten to front face unless noted otherwise.
F. Provide insulation saddles at all supports, equipment and penetrations to facilitate roof drainage.
G. Typical roof details included in this set of contract documents are for reference. Install roofing system, flashings, and accessories as required by roofing manufacturer for project specific conditions and warranty requirements.

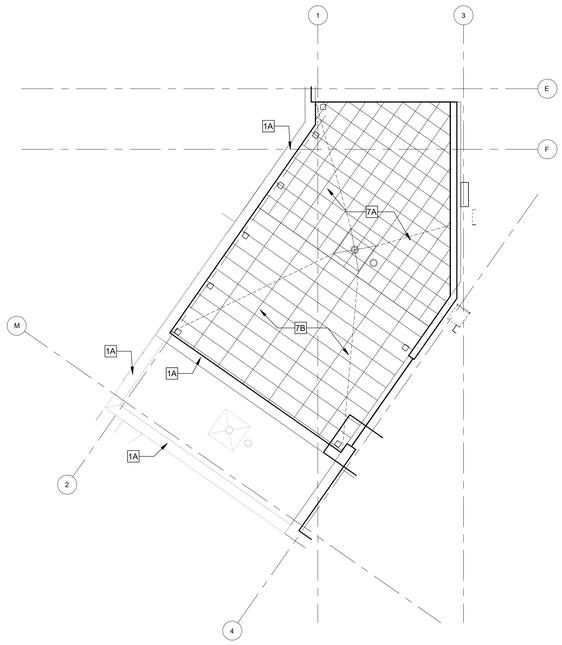
CODED ROOF NOTES

#

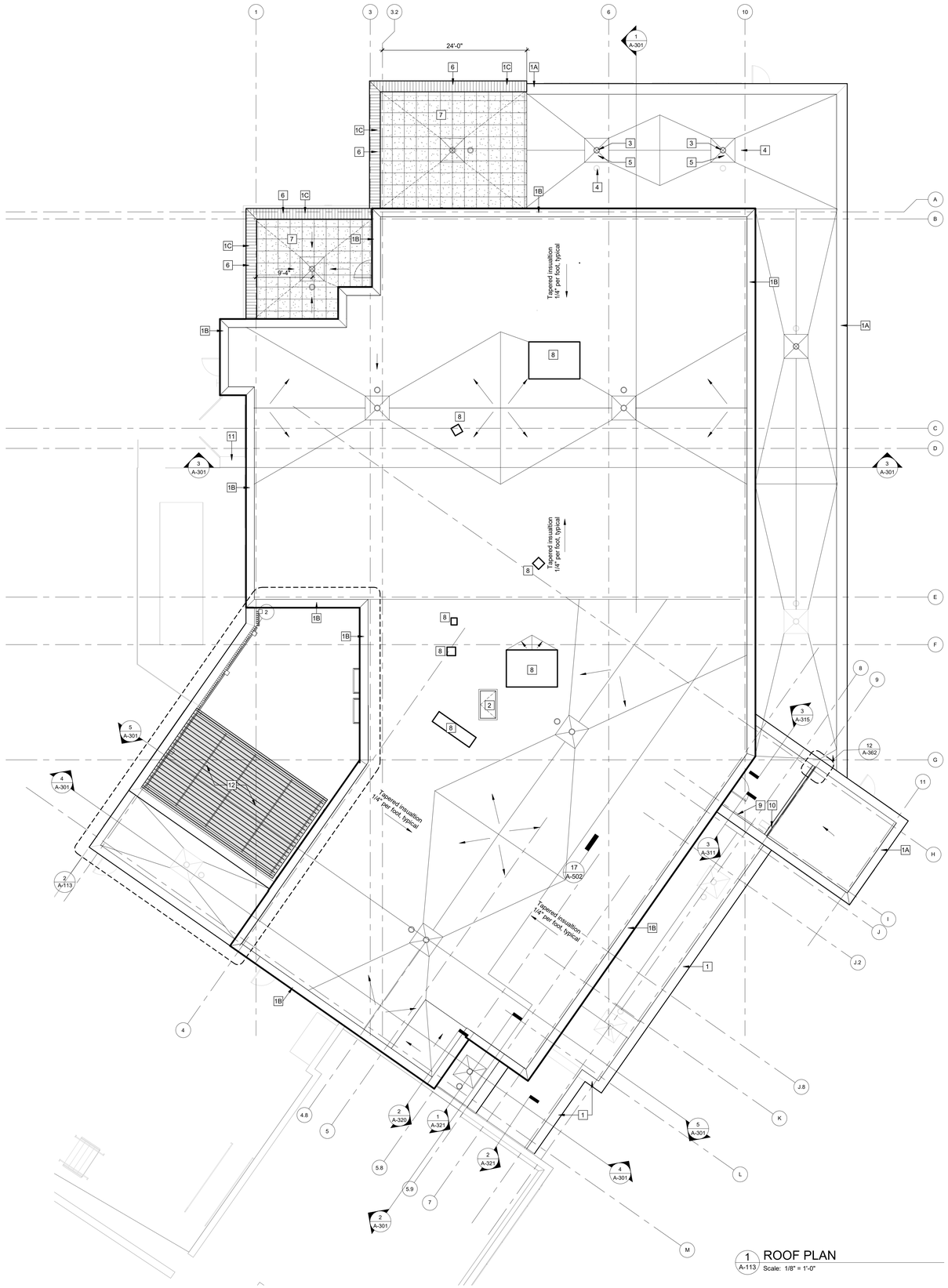
1 077100 - 12" Aluminum coping
1A 077100 - 8" Aluminum coping
1B 077100 - 6" Aluminum coping
1C 077100 - 8" Aluminum fascia below parapet guard
2 077200 - Insulated roof hatch
3 Primary roof drain, typical. Coordinate with plumbing drawings
4 Overflow roof drain, typical. Coordinate with plumbing drawings
5 075323 - Tapered insulation target sump
6 055000 - Galvanized bar grating parapet guard
7 077600 - Concrete paver system on pedestals
7A 077600 - 24"x24" Synthetic turf paver system on pedestals
7B 077600 - 24"x48" Wood deck paver system on pedestals
8 Mechanical equipment
9 077100 - Through wall scupper
10 077100 - Gutter and downspout. Discharge onto splash block at lower roof.
11 047200 -Cast stone cap
12 107139 - Solid roof covering over dining area



ROOF SYSTEM ASSEMBLY



2 ROOF PLAN - PATIO
A-113 Scale: 1/8" = 1'-0"



1 ROOF PLAN
A-113 Scale: 1/8" = 1'-0"

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ROOF PLAN

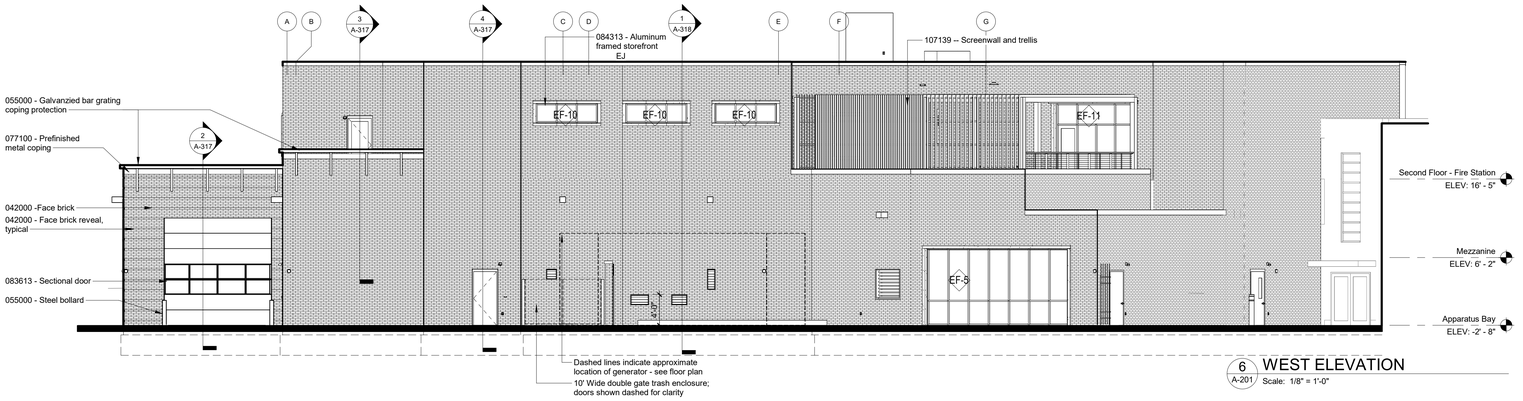
A-113

PERSPECTUS

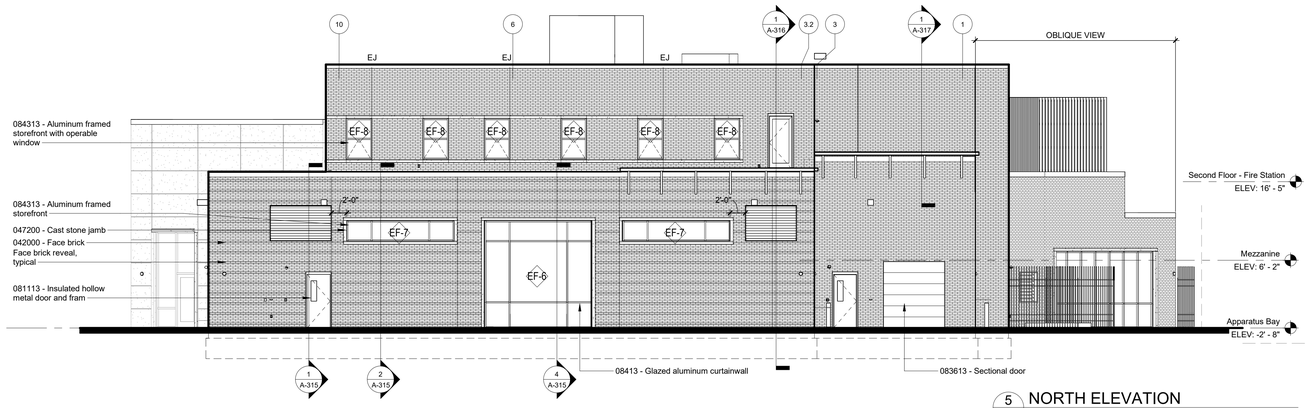
PRELIMINARY
NOT FOR CONSTRUCTION

LEGEND - EXTERIOR ELEVATIONS

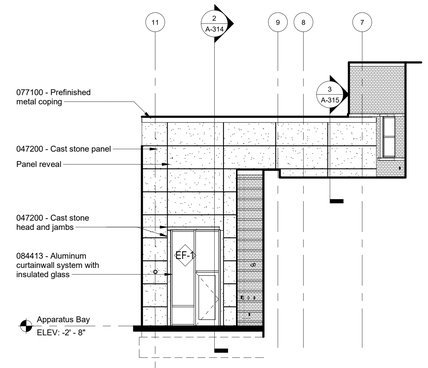
- IG-1 Insulated Vision Glass
- 042000 - Face Brick
- 047200 - Cast stone



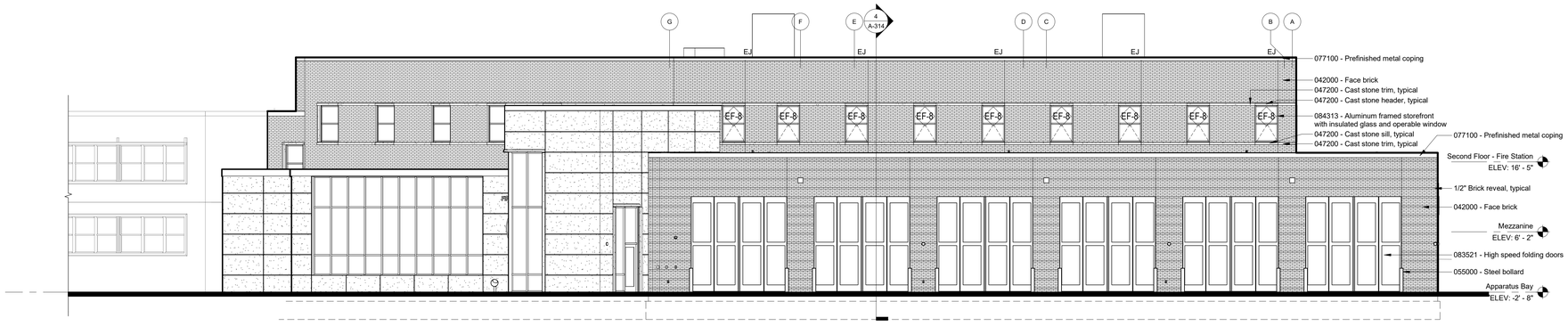
6 A-201 WEST ELEVATION
Scale: 1/8" = 1'-0"



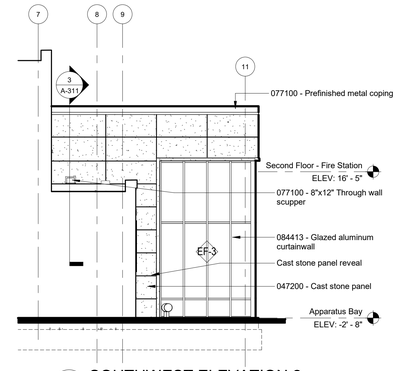
5 A-201 NORTH ELEVATION
Scale: 1/8" = 1'-0"



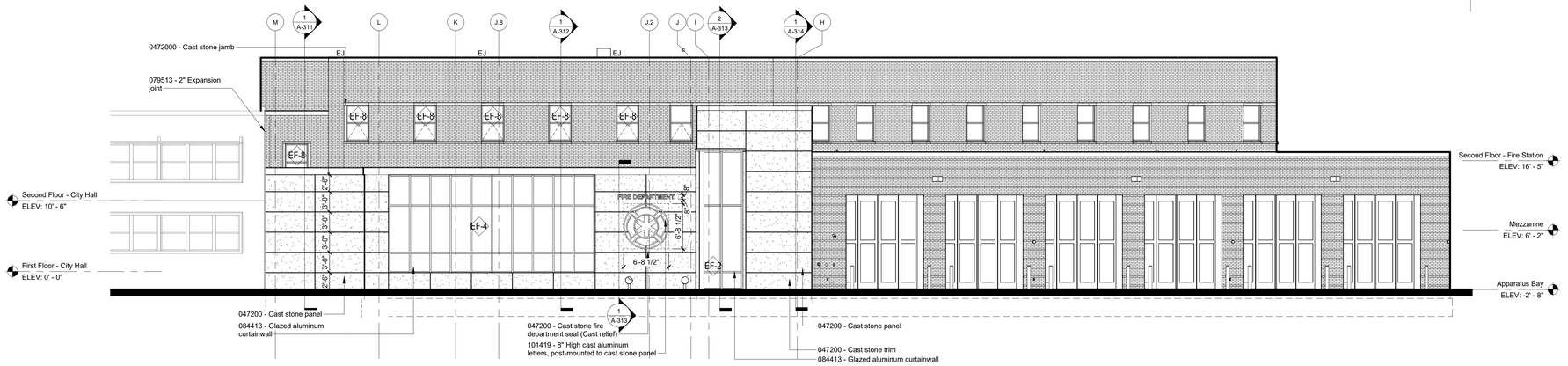
4 A-201 NORTHEAST ELEVATION 2
Scale: 1/8" = 1'-0"



3 A-201 EAST ELEVATION
Scale: 1/8" = 1'-0"



2 A-201 SOUTHWEST ELEVATION 2
Scale: 1/8" = 1'-0"



1 A-201 SOUTHEAST ELEVATION
Scale: 1/8" = 1'-0"

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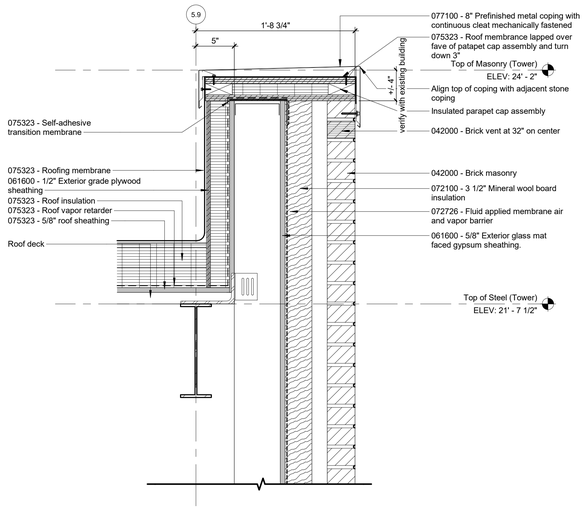
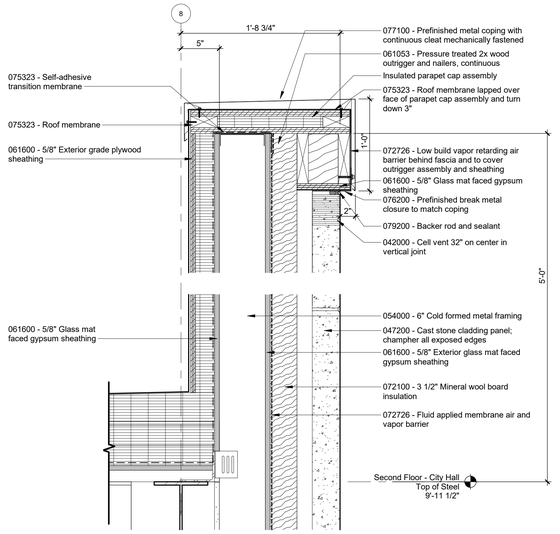
EXTERIOR ELEVATIONS

A-201



10 A-311 SECTION DETAIL
Scale: 1 1/2" = 1'-0"



9 A-311 SECTION DETAIL
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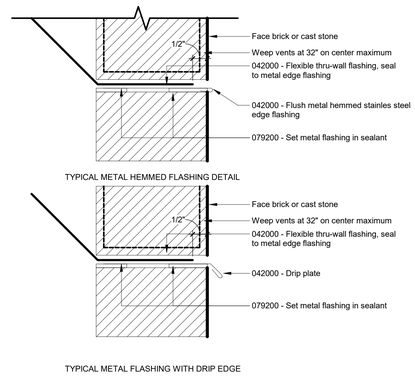
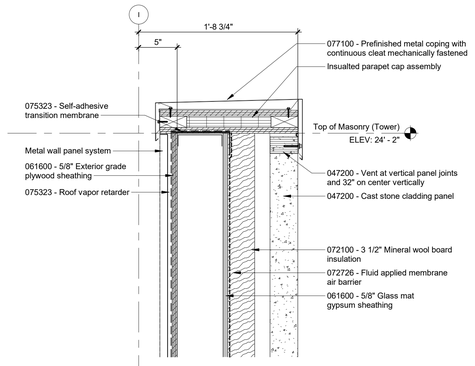
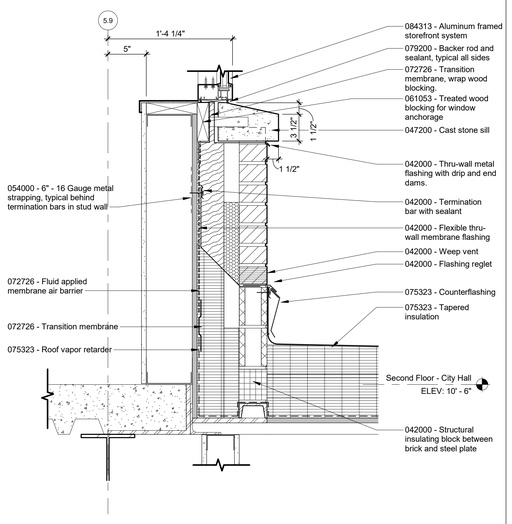


8 A-311 TYPICAL METAL FLASHING DETAILS
Scale: 6" = 1'-0"



7 A-311 SECTION DETAIL
Scale: 1 1/2" = 1'-0"



6 A-311 SECTION DETAIL
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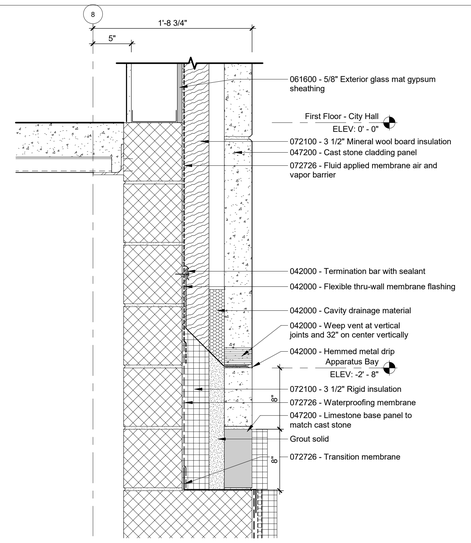
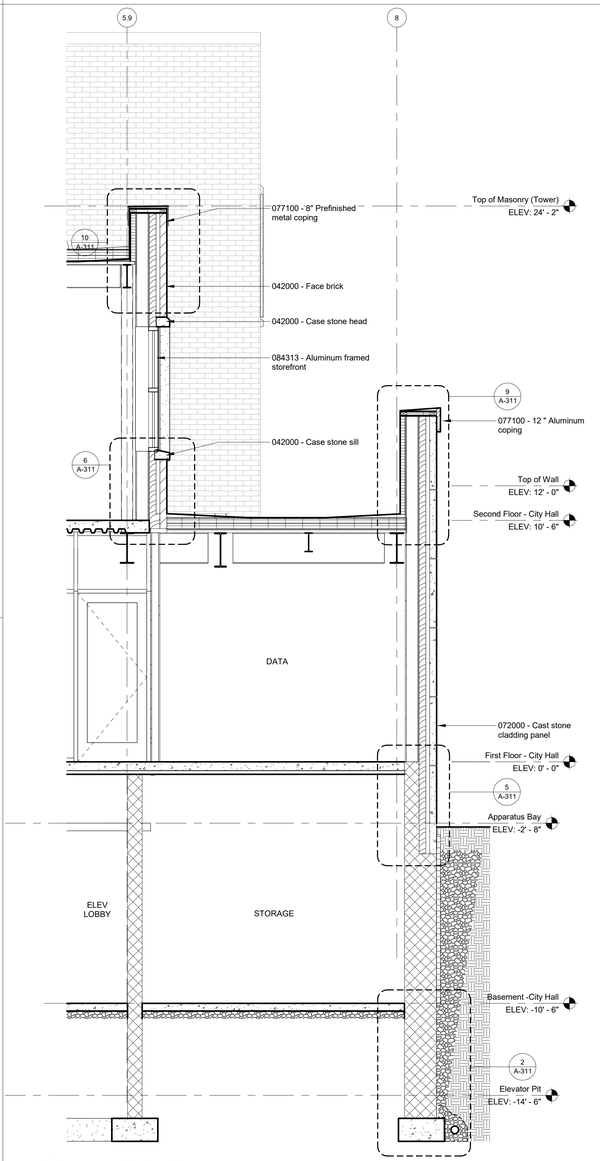
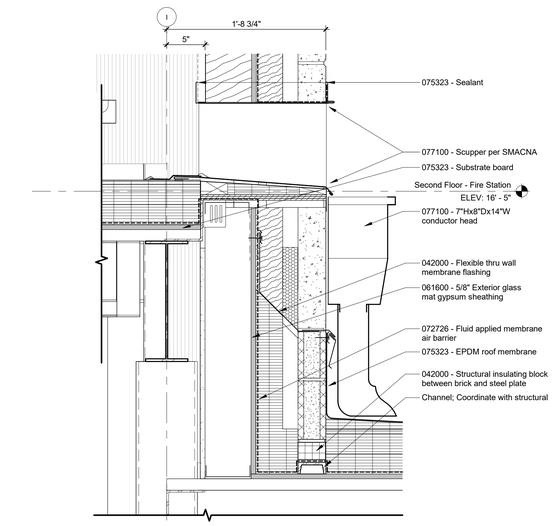


5 A-311 SECTION DETAIL
Scale: 1 1/2" = 1'-0"



1 A-311 WALL SECTION
Scale: 3/8" = 1'-0"



4 A-311 SECTION DETAIL
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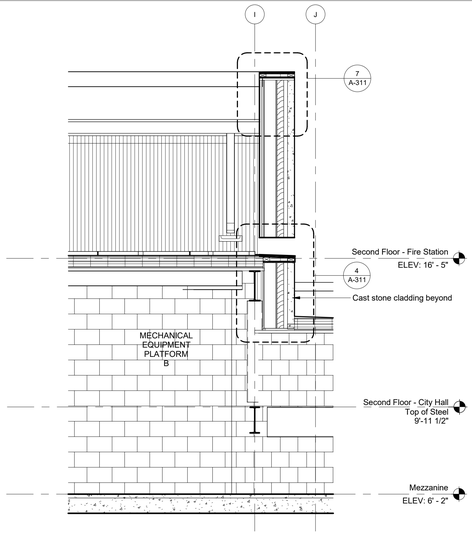
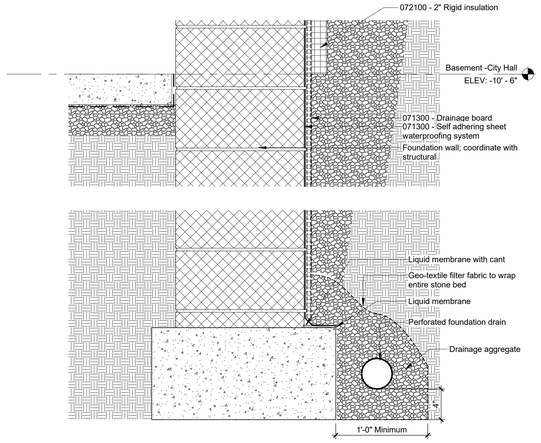


3 A-311 PARTIAL WALL SECTION
Scale: 3/8" = 1'-0"



2 A-311 SECTION DETAIL
Scale: 1 1/2" = 1'-0"

PERSPECTUS

PRELIMINARY
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24-114
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WALL SECTIONS & DETAILS

A-311

PERSPECTUS

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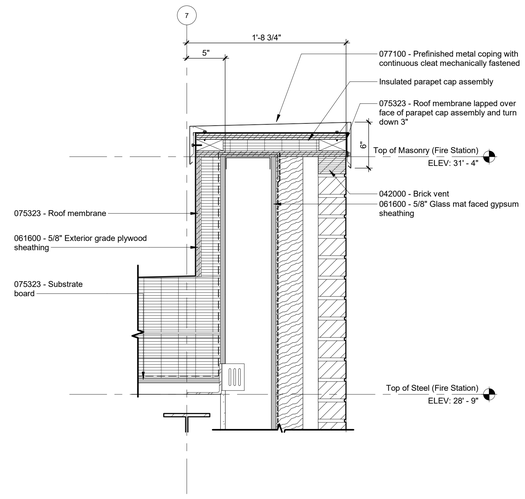
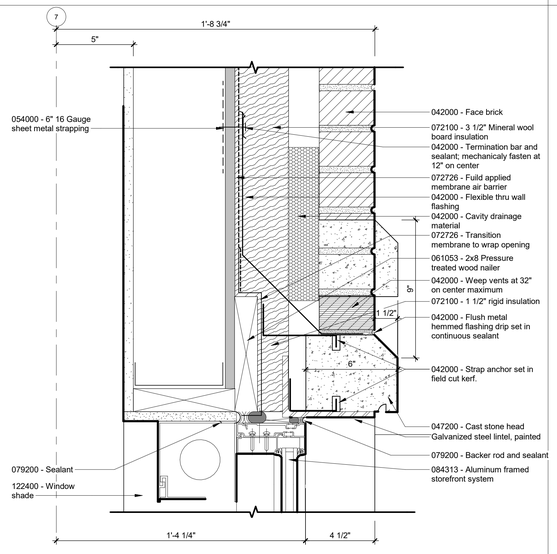
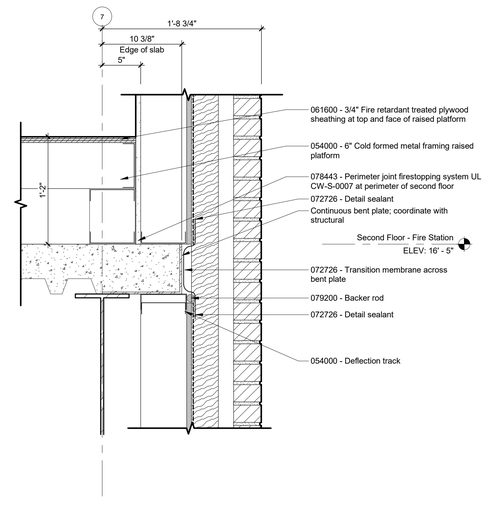


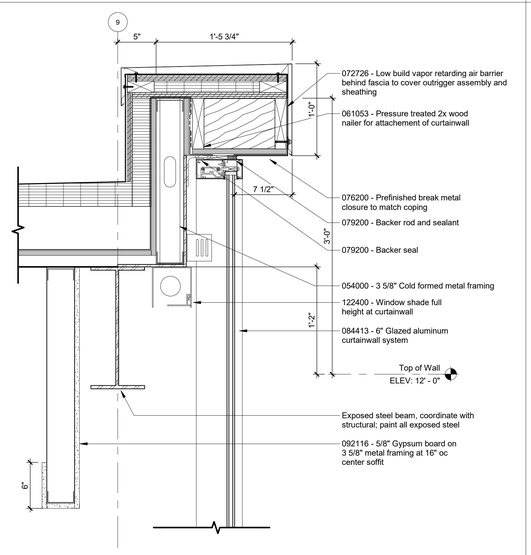
8 A-312 SECTION DETAIL
Scale: 1 1/2" = 1'-0"



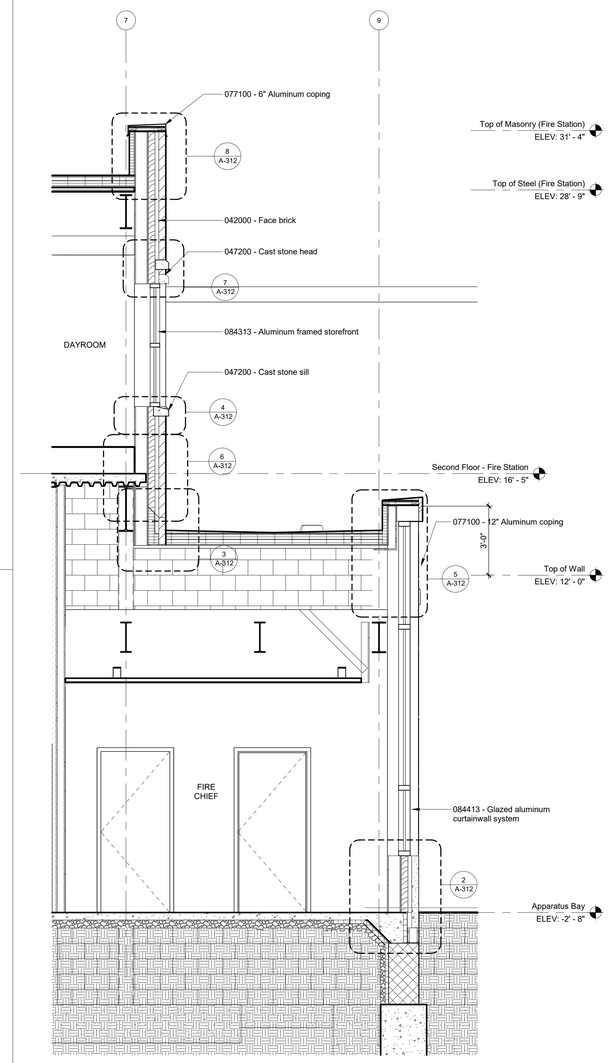
7 A-312 SECTION DETAIL
Scale: 3" = 1'-0"



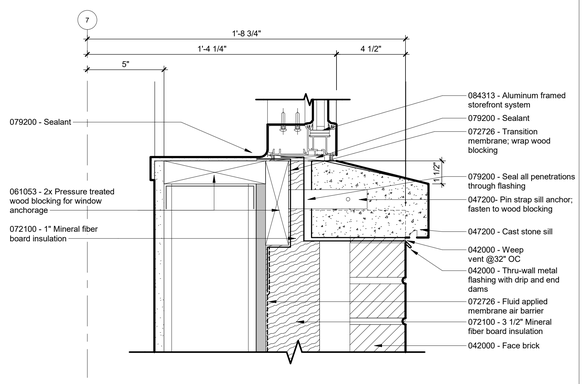
6 A-312 SECTION DETAIL
Scale: 1 1/2" = 1'-0"



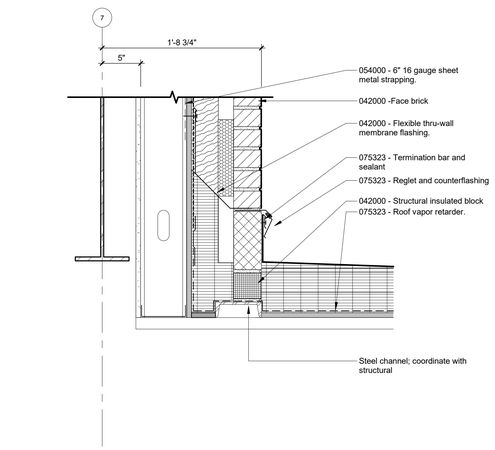
5 A-312 SECTION DETAIL
Scale: 1 1/2" = 1'-0"



1 A-312 WALL SECTION
Scale: 3/8" = 1'-0"



4 A-312 SECTION DETAIL
Scale: 3" = 1'-0"



3 A-312 SECTION DETAIL
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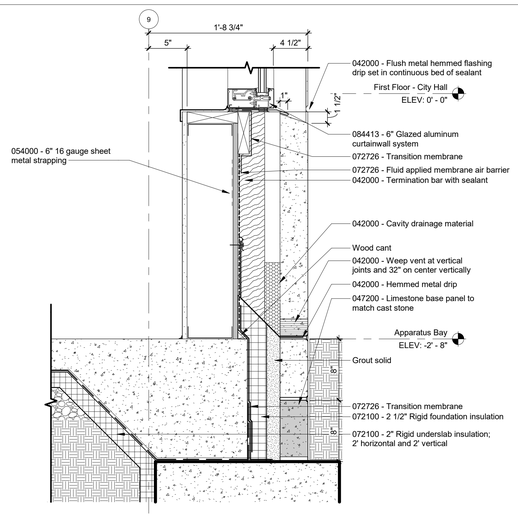

2 A-312 SECTION DETAIL
Scale: 1 1/2" = 1'-0"

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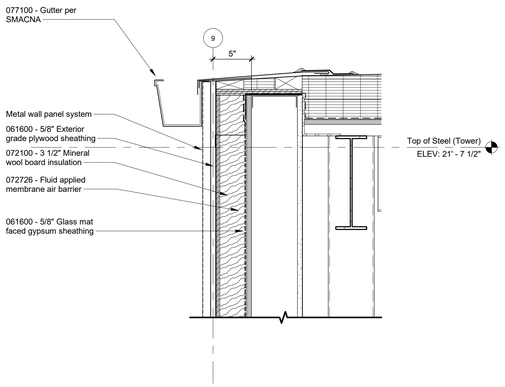
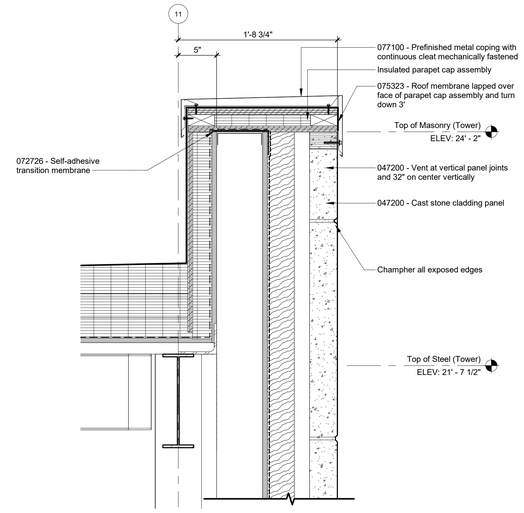
WALL SECTIONS & DETAILS

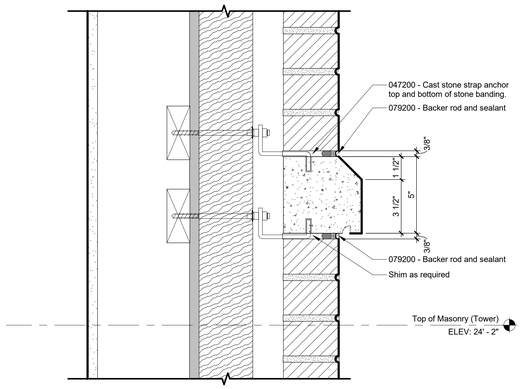
A-312



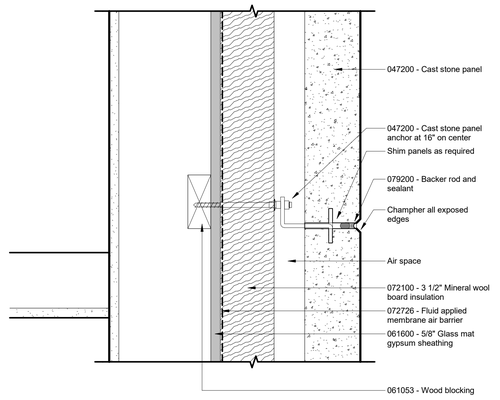
11 A-313 SECTION DETAIL
Scale: 1 1/2" = 1'-0"



10 A-313 SECTION DETAIL
Scale: 1 1/2" = 1'-0"



9 A-313 SECTION DETAIL
Scale: 3" = 1'-0"

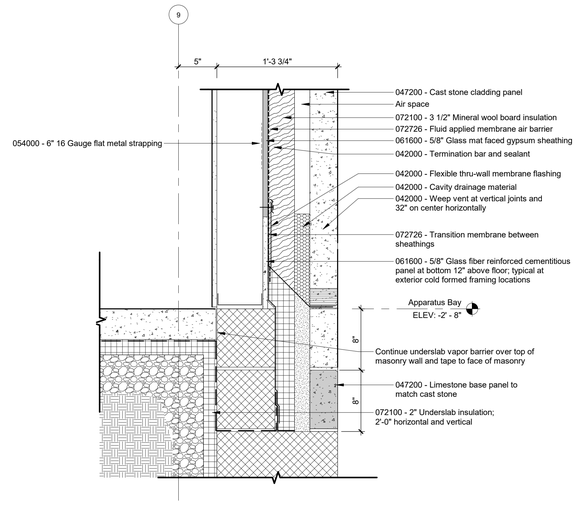


8 A-313 SECTION DETAIL
Scale: 3" = 1'-0"

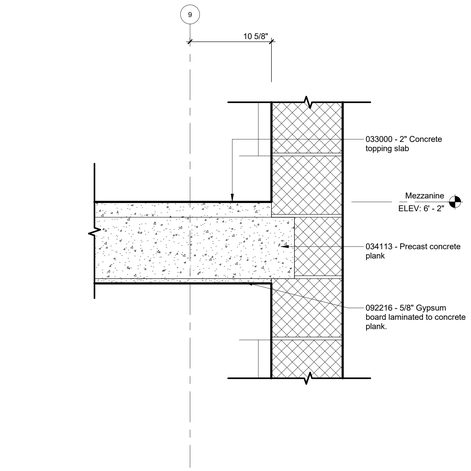
7 A-313 SECTION DETAIL
Scale: 1 1/2" = 1'-0"

6 A-313 SECTION DETAIL
Scale: 3" = 1'-0"

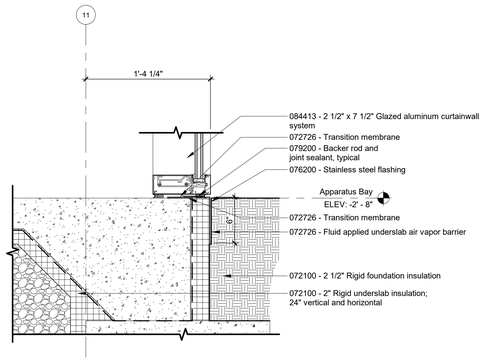
2 A-313 WALL SECTION
Scale: 3/8" = 1'-0"



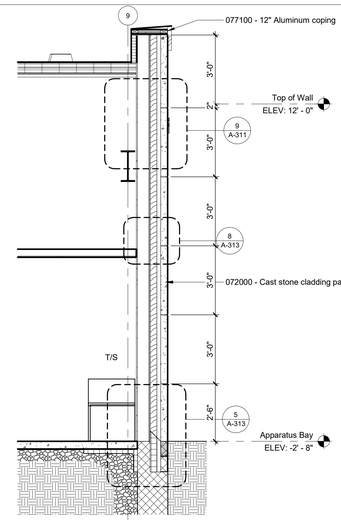
5 A-313 SECTION DETAIL
Scale: 1 1/2" = 1'-0"



4 A-313 SECTION DETAIL
Scale: 1 1/2" = 1'-0"



3 A-313 SECTION DETAIL
Scale: 1 1/2" = 1'-0"



1 A-313 WALL SECTION
Scale: 3/8" = 1'-0"

PERSPECTUS

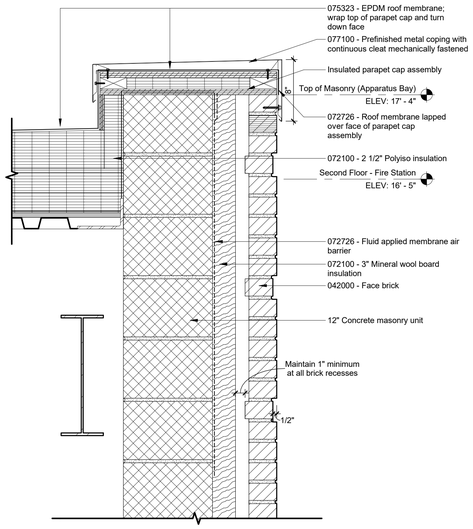
PRELIMINARY
NOT FOR CONSTRUCTION

24-114
New Fire Station
City of Rocky River
21012 Hilliard Blvd
Rocky River, Ohio 44116

ISSUE	DATE
Schematic Design	03-26-2025
Design Development	06-19-2025
Final Planning Commission	08-04-2025

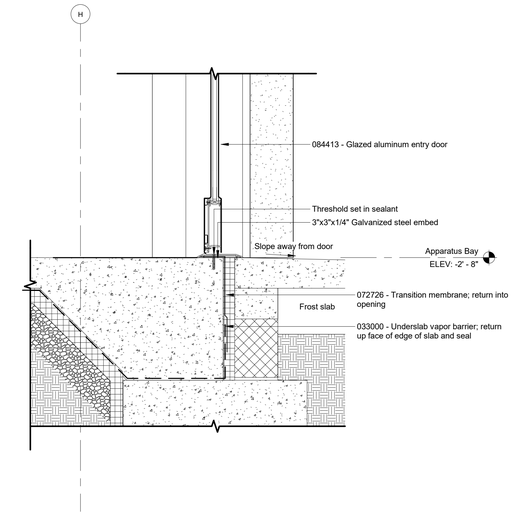
WALL SECTIONS & DETAILS

A-313



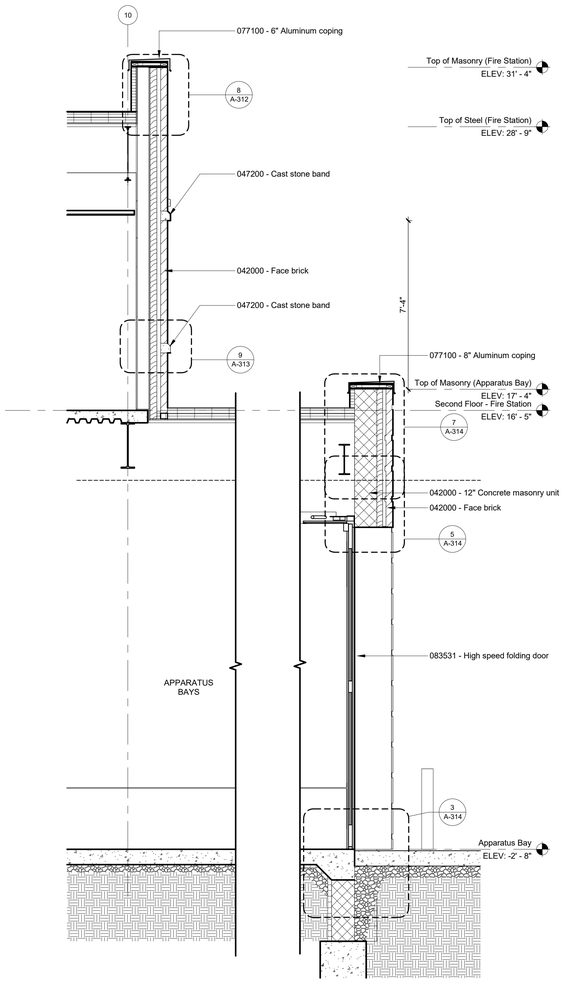
7 A-314 SECTION DETAIL

Scale: 1 1/2" = 1'-0"



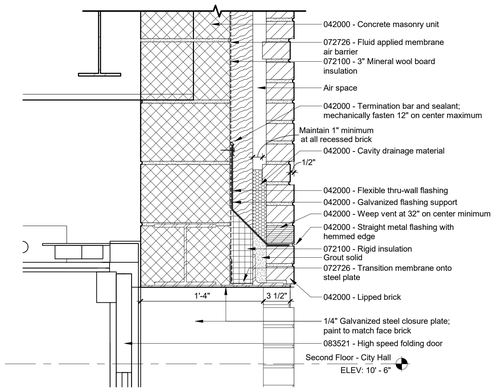
6 A-314 SECTION DETAIL

Scale: 1 1/2" = 1'-0"



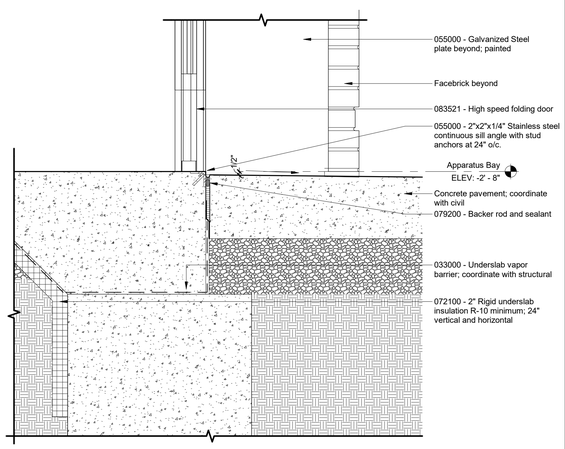
4 A-314 WALL SECTION

Scale: 3/8" = 1'-0"



5 A-314 SECTION DETAIL

Scale: 1 1/2" = 1'-0"

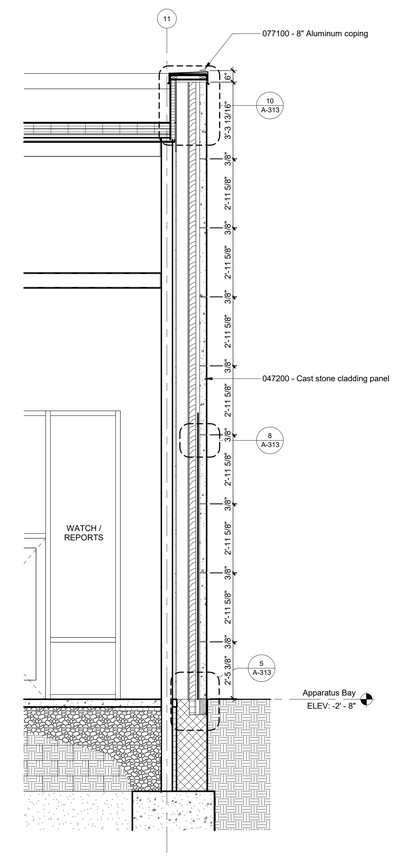


3 A-314 SECTION DETAIL

Scale: 1 1/2" = 1'-0"

2 A-314 PARTIAL WALL SECTION

Scale: 3/8" = 1'-0"



1 A-314 WALL SECTION

Scale: 3/8" = 1'-0"

PERSPECTUS

PRELIMINARY
NOT FOR CONSTRUCTION

24-114

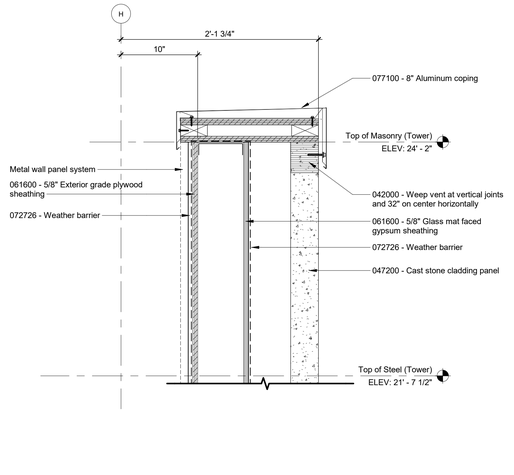
New Fire Station

City of Rocky River
21012 Hilliard Blvd
Rocky River, Ohio 44116

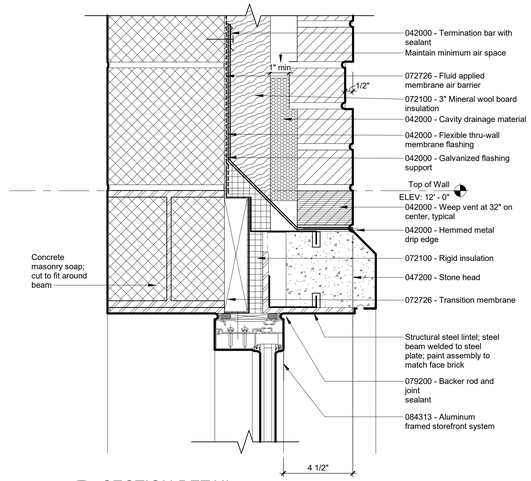
ISSUE	DATE
Design Development	06-19-2025
Final Planning Commission	08-04-2025

WALL SECTIONS & DETAILS

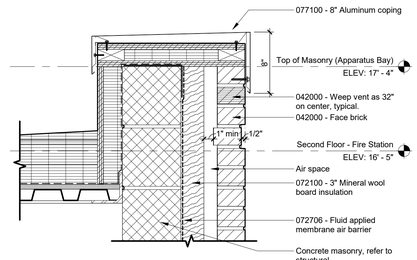
A-314



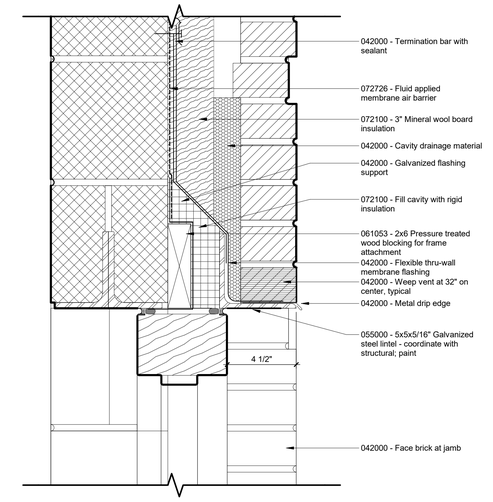
12 A-315 SECTION DETAIL
Scale: 1 1/2" = 1'-0"



11 A-315 SECTION DETAIL
Scale: 3" = 1'-0"



10 A-315 SECTION DETAIL
Scale: 1 1/2" = 1'-0"



9 A-315 SECTION DETAIL
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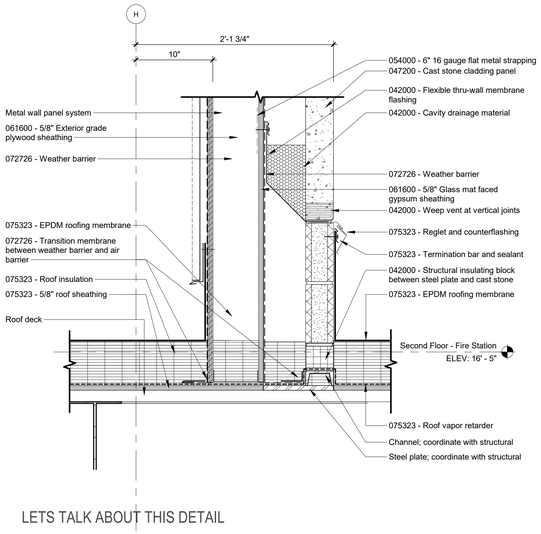
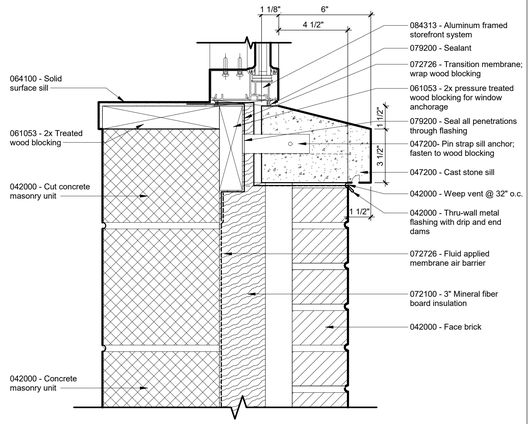
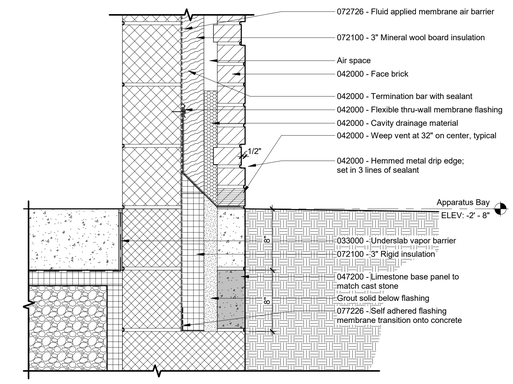


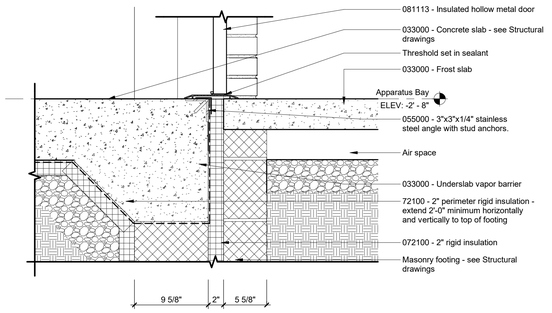
8 A-315 SECTION DETAIL
Scale: 1 1/2" = 1'-0"



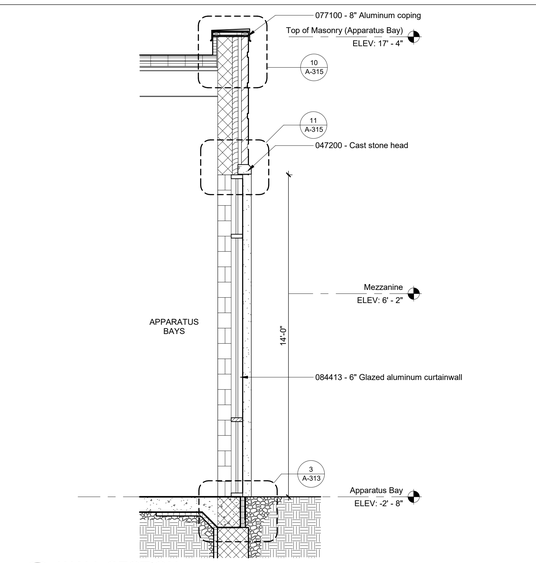
7 A-315 SECTION DETAIL
Scale: 3" = 1'-0"



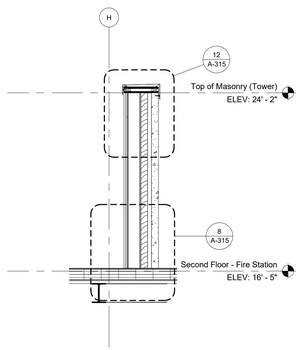
6 A-315 SECTION DETAIL
Scale: 1 1/2" = 1'-0"



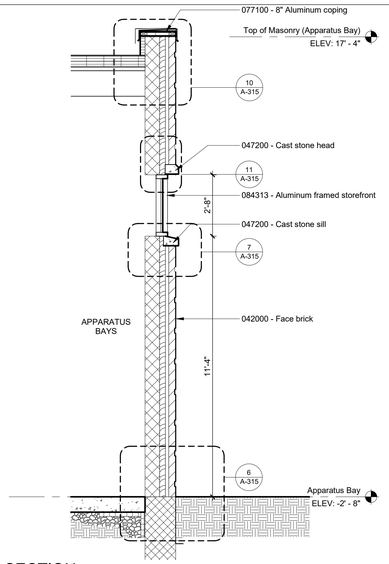
5 A-315 SECTION DETAIL
Scale: 1 1/2" = 1'-0"



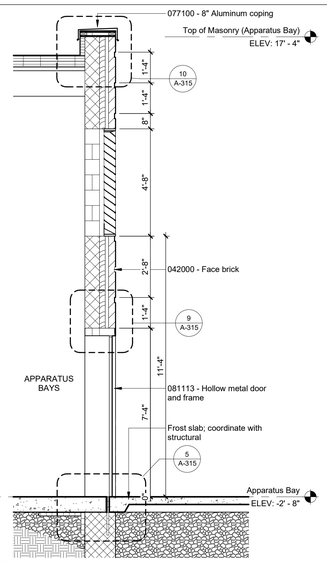
4 A-315 WALL SECTION
Scale: 3/8" = 1'-0"



3 A-315 WALL SECTION
Scale: 3/8" = 1'-0"



2 A-315 WALL SECTION
Scale: 3/8" = 1'-0"



1 A-315 WALL SECTION
Scale: 3/8" = 1'-0"

PERSPECTUS

PRELIMINARY
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24-114
New Fire Station
City of Rocky River
21012 Hilliard Blvd
Rocky River, Ohio 44116

ISSUE	DATE
Design Development	06-19-2025
Final Planning Commission	08-04-2025

WALL SECTIONS & DETAILS

A-315

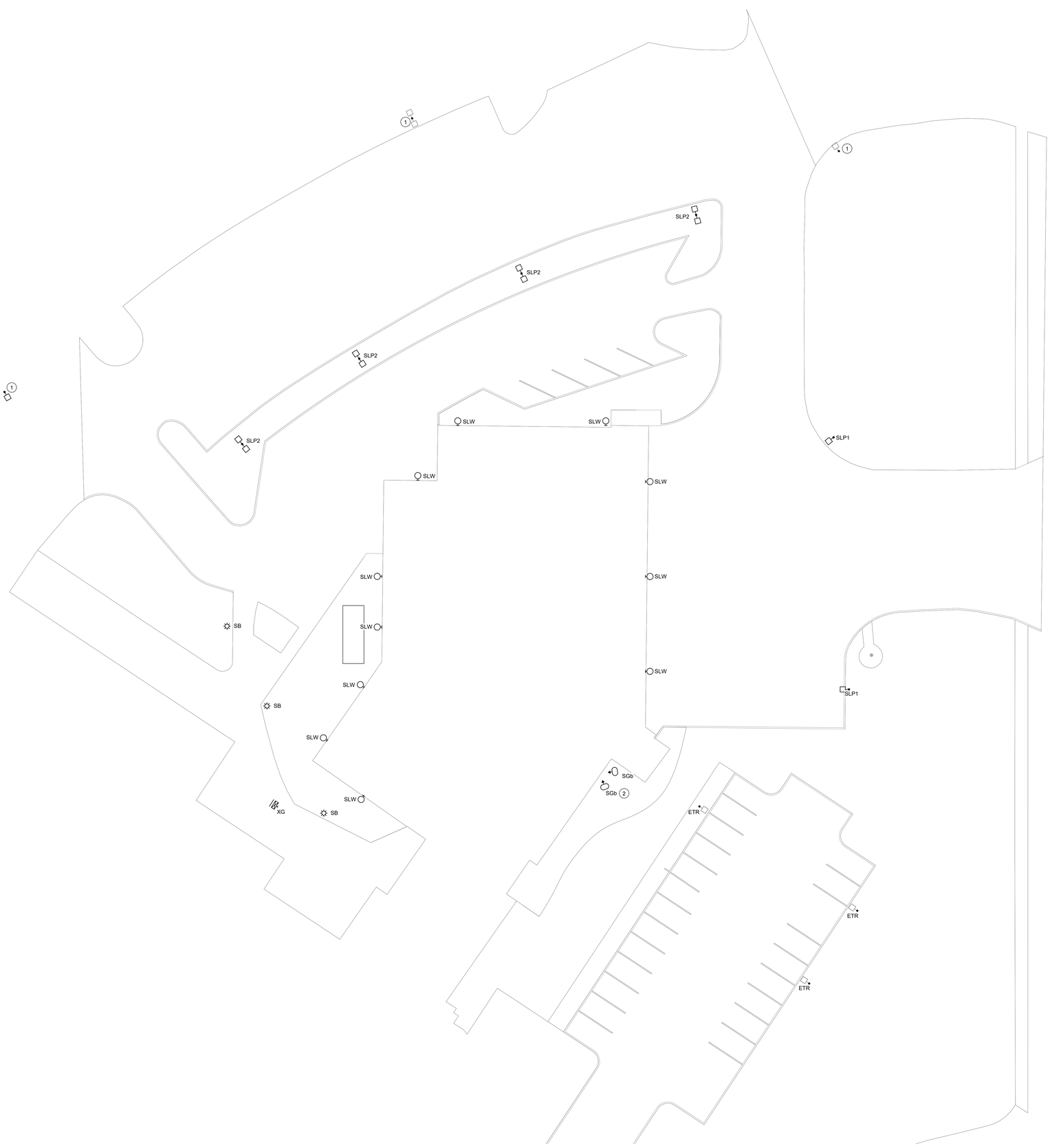
PERSPECTUS

PLAN NOTES

(#)

1 EXISTING UTILITY POLE WITH LIGHT TO REMAIN.

2 PROVIDE TWO (2) SGb TYPE FIXTURES LOCATED IN THE LANDSCAPING. ANGLE LUMINAIRES UPWARD TO ILLUMINATE FIRE STATION SIGN.



ELECTRICAL SITE PLAN

1/16" = 1'-0"

Karpinski ENGINEERING

3135 Euclid Ave.
Cleveland, OH 44115
216-391-3700 | karpinskieng.com

PROGRESS PRINT NOT FOR CONSTRUCTION

24-114

New Fire Station

City of Rocky River
21012 Hilliard Blvd
Rocky River, Ohio 44116

ISSUE DATE

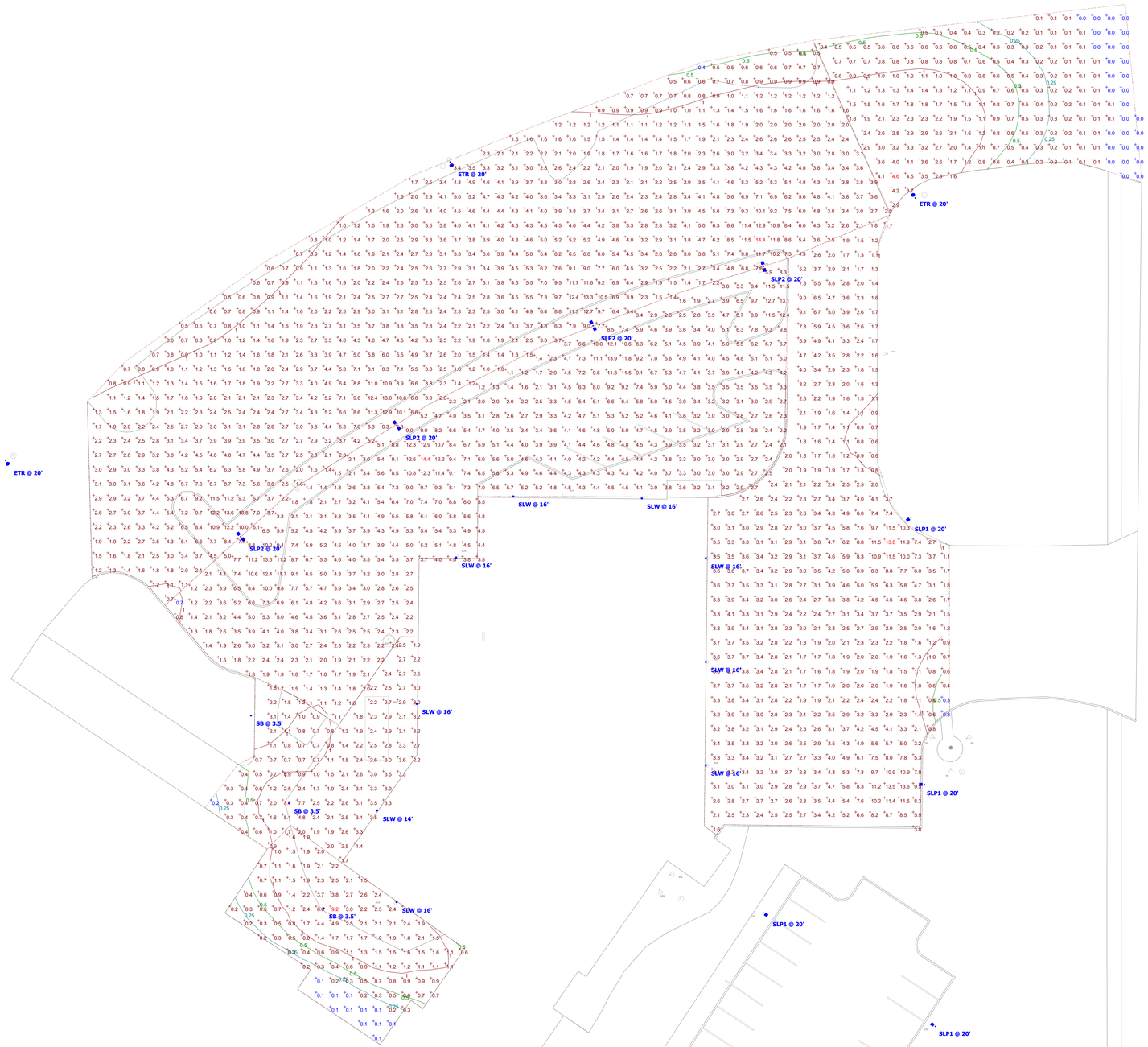
ELECTRICAL SITE PLAN

SCALE: 1/16" = 1'-0"

0 4' 8' 12' 16' 24' 32'

ES-101

1/29/2025 7:29:20 AM



Plan View
Scale - 1" = 20ft

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Emergency Vehicle Driveway	+	3.5 fc	13.8 fc	0.3 fc	46.0:1	11.7:1
Gen Set and Sidewalk	+	3.2 fc	8.9 fc	0.4 fc	22.3:1	8.0:1
North Driveway	+	0.9 fc	4.6 fc	0.0 fc	N/A	N/A
NW Inner Parking	+	4.8 fc	14.5 fc	0.7 fc	20.7:1	6.9:1
NW Outer Parking	+	3.5 fc	14.4 fc	0.4 fc	36.0:1	8.8:1
City Hall - Back Entrance	+	2.3 fc	10.9 fc	0.1 fc	109.0:1	23.0:1

Schedule

Symbol	Label	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power
	SLW	12	COOPER LIGHTING SOLUTIONS - McGRAW-EDISON (FORMERLY EATON)	ISW-SA1B-740-U-T2	IMPACT ELITE LED WEDGE LUMINAIRE (1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS	16	217.2027	1	25.4
	SLP1	5	RAB LIGHTING INC.	ALED4T12S/480 - RWLED4T12S/480 - RWLED4T12SSF/480 - WPLED4T12S/480 (TYPE IV)	CAST FINNED METAL HOUSING, 6 CIRCUIT BOARDS EACH WITH 1 LED, MOLDED 2-PIECE PLASTIC REFLECTOR WITH SPECULAR FINISH AND 1 APERTURE PER LED, CLEAR FLAT GLASS LENS IN CAST BROWN PAINTED METAL LENS FRAME.	6	2740	1	135.9
	SLP2	4	RAB LIGHTING INC.	ALED4T12S/480 - RWLED4T12S/480 - RWLED4T12SSF/480 - WPLED4T12S/480 (TYPE IV)	CAST FINNED METAL HOUSING, 6 CIRCUIT BOARDS EACH WITH 1 LED, MOLDED 2-PIECE PLASTIC REFLECTOR WITH SPECULAR FINISH AND 1 APERTURE PER LED, CLEAR FLAT GLASS LENS IN CAST BROWN PAINTED METAL LENS FRAME.	6	2740	1	271.8
	SB	3	LUMINIS	CL613-L4L20-40K	LumiSTIK 6in	1	2206	1	21.7

Karpinski ENGINEERING

Rocky River Fire Station - Site Lighting Calc

Designer
Austin Rech
Date
06/02/2025
Scale
1" = 20'
Drawing No.

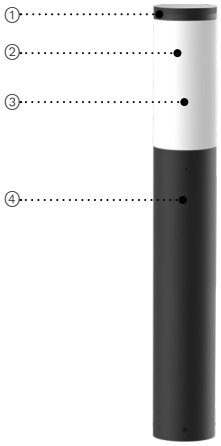
Summary

LUMINIS®

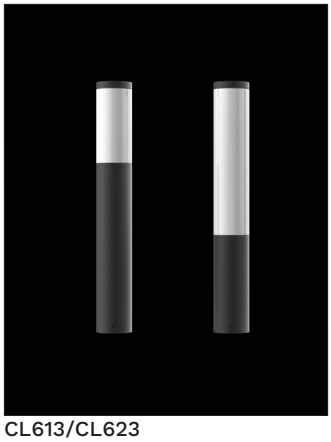
CL613/CL623
LUMISTIK
BOLLARD

PROJECT NAME: **QUANTITY:** **TYPE:**

ORDERING CODE: SB



① Heavy cast aluminum top cover with embedded heat sink.
② Ø 6" (152mm) High impact white translucent acrylic UV stabilized.
③ LED array.
④ Ø 6" (152mm) extruded aluminum base.



CL613/CL623

MATERIALS

Lumistik bollard is made of corrosion resistant 356 aluminum alloy with a copper (CU) content of less than 0.1%.
LED is contained in a white UV stabilized high impact acrylic sealed cylinder. The assembly is designed to provide a uniform column illumination.

ELECTRICAL DRIVER

Driver is 0-10V dimming-ready (dims to 10%) with: 120-277 multi-volt compatibility (50-60Hz), operating temperature range of -40°C to +55°C/-40°F to +131°F, output over voltage protection, output over current protection and output short circuit protection with auto-recovery. Driver for RGBW is DMX512 / RDM compatible.

LED LIGHT ENGINE

Offered in 2700K/3000K/3500K/4000K CCT with 80 CRI. Optional RGBW. 60,000hrs L70B50 (based on IESNA TM-21 Test Method and LM-80 data).

FINISH

Five-stage preparation process includes preheating of cast aluminum parts for air extraction. Polyester powder coating is applied through an electrostatic process, and oven cured for long term finish.

CERTIFICATION

UL Certified to Canadian and U.S. safety standards. Certified for use in wet locations. Rated IP65. Photometric testing performed by an independent laboratory in accordance with IES LM-79-08 standards at 25°C. Actual performance may differ as a result of end-user environment and application.

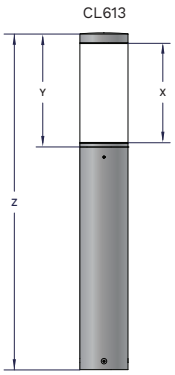
WARRANTY

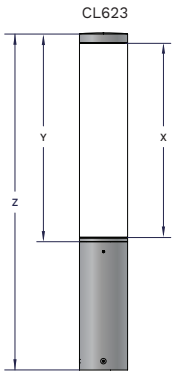
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: https://www.acuitybrands.com/support/warranty/terms-and-conditions

MOUNTING

Mounts with a set of 4 x 1/2"-13 x 18" lg. galvanized anchor bolts. See mounting details for specific information.

MEASUREMENTS





Model	X	Y	(OAH) Z
CL613	12.3" (313mm)	14.2" (362mm)	42" (1067mm)
CL623	24.3" (618mm)	26.2" (667mm)	42" (1067mm)
CL613 RGBW	13.4" (340mm)	15.3" (389mm)	43.1" (1096mm)
CL623 RGBW	25.4" (645mm)	27.3" (694mm)	43.1" (1096mm)

LUMINIS.COM
Toll free: (866) 586-4647 | Fax: (514) 683-8872 | Email: info@luminis.com
260 Labrosse, Pointe-Claire (QC) Canada H9R 5L5

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ORDERING CODE

*SERIES	*LIGHT OUTPUT	*CCT	*VOLTAGE	BOLLARD HEIGHT	FUSE
CL613	Static White **L4L5** 605 lm/5w (605 lm/ft) **L4L10** 1009 lm/9w (1009 lm/ft) **L4L15** 1585 lm/15w (1585 lm/ft) **L4L20** 2135 lm/21w (2135 lm/ft) **L4L30** 3129 lm/32w (3129 lm/ft) RGBW **L4RGBW** 1154 lm/21w (1154 lm/ft)[1,2] **Delivered lumens calculated at 4000K/80CRI except for RGBW. Typical power consumption. Refer to LCF table for outputs at other CCTs. For RGBW, values are for total delivered lumens. For individual maximum output values, refer to RGBW details section.**	**27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K **RGBW** RGB + white 4000K	**120** 120V **277** 277V **347** 347V **480** 480V **HVOLT** 347V-480V **MVOLT** 120V-277V	**PR6** Optional pedestal mount adaptor. OAH 26".[3]	**FS** Fuse

PHOTOCELL	SURGE PROTECTOR	GFI	EMERGENCY
PH Photocell[4]	**SP** Surge protector 10KV	**CGF** Circuit ground fault interruption receptacle with clear in-use cover[5,6,7,8] **GFI** Circuit ground fault interruption receptacle[5,6,8]	**REM7** Remote emergency battery, 90 min, 7W[9]

SHIELDING ACCESSORIES	*FINISH	WOOD FINISH[14]	ENVIRONMENT	LESS ANCHOR BOLTS
DECO1 360˚ decorative shroud with aligned round holes[10,11] **DECO2** 360˚ decorative shroud with vertical slots[10,11] **DECO3** 180˚ blockout shield (factory installed)[10,11] **DECO4** 180˚ blockout shield (field installable)[11]	**BKT** Jet black **BZT** Bronze **CHT** Champagne **DGT** Gun metal **GRT** Titanium gray **MST** Matte silver **SGT** Steel gray **WHT** Snow white **CMC** Custom matched color[12] **RAL** RAL color[13]	**ADG** American douglas **BRC** Birch **CHN** Chestnut **CRY** Cherry **KNP** Knotty pine **MPL** Maple **OFL** Oak **RSW** Rosewood **TEK** Teak **WLN** Walnut	**MG** Marine grade paint[15]	**L/AB** Less anchor bolts

NOTES
*- Denotes a required field
1- Not available with 347V, 480V, HVOLT, REM7. RGBW models can only go to -20˚C.
2- Available only with RGBW option.
3- Available only on CL613. OAH 26" (660mm).
4- Installed on the side of the fixture.
5- Not available with PR6.
6- Installed 15" above grade. Requires 120V feed.
7- CGF cover protrudes by 3.62" (92mm).
8- Available only on CL613.
9- Remote mount 50ft - 12" square enclosure with access cover. The remote enclosure must be interior. Not available with 347V, 480V, and HVOLT. Cable between fixture and remote box is provided by other.
10- OAH increases by 1.4". See option details for more information.
11- Not available with RGBW.
12- Contact factory to coordinate custom matching color.
13- Specify RAL number.
14- Faux wood finish not applied to the fixture head or accessories. Additional delay required. Not compatible with marine grade paint.
15- Marine grade paint for harsh, coastal environment and exposure to salt water. Additional delay required.

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ORDERING CODE

*SERIES	*LIGHT OUTPUT	*CCT	*VOLTAGE	FUSE	PHOTOCELL
CL623	Static White **L4L10** 1210 lm/11w (605 lm/ft) **L4L20** 2041 lm/18w (1020 lm/ft) **L4L30** 3170 lm/30w (1585 lm/ft) **L4L40** 4270 lm/42w (2135 lm/ft) **L4L50** 5695 lm/59w (2847 lm/ft) RGBW **L4RGBW** 2046 lm/35w (1023 lm/ft)[1,2] **Delivered lumens calculated at 4000K/80CRI except for RGBW. Typical power consumption. Refer to LCF table for outputs at other CCTs. For RGBW, values are for total delivered lumens. For individual maximum output values, refer to RGBW details section.**	**27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K **RGBW** RGB + white 4000K	**120** 120V **277** 277V **347** 347V **480** 480V **HVOLT** 347V-480V **MVOLT** 120V-277V	**FS** Fuse	**PH** Photocell[3]

SURGE PROTECTOR	EMERGENCY	SHIELDING ACCESSORIES	*FINISH	WOOD FINISH[9]
SP Surge protector 10KV	**REM7** Remote emergency battery, 90 min, 7W[4]	**DECO1** 360˚ decorative shroud with aligned round holes[5,6] **DECO2** 360˚ decorative shroud with vertical slots[5,6] **DECO3** 180˚ blockout shield (factory installed)[5,6] **DECO4** 180˚ blockout shield (field installable)[6]	**BKT** Jet black **BZT** Bronze **CHT** Champagne **DGT** Gun metal **GRT** Titanium gray **MST** Matte silver **SGT** Steel gray **WHT** Snow white **CMC** Custom matched color[7] **RAL** RAL color[8]	**ADG** American douglas **BRC** Birch **CHN** Chestnut **CRY** Cherry **KNP** Knotty pine **MPL** Maple **OFL** Oak **RSW** Rosewood **TEK** Teak **WLN** Walnut

ENVIRONMENT	LESS ANCHOR BOLTS
MG Marine grade paint[10]	**L/AB** Less anchor bolts

NOTES
*- Denotes a required field
1- Not available with 347V, 480V, HVOLT, REM7. RGBW models can only go to -20˚C.
2- Available only with RGBW option.
3- Installed on the side of the fixture.
4- Remote mount 50ft - 12" square enclosure with access cover. The remote enclosure must be interior. Not available with 347V, 480V, and HVOLT. Cable between fixture and remote box is provided by other.
5- OAH increases by 1.4". See option details for more information.
6- Not available with RGBW.
7- Contact factory to coordinate custom matching color.
8- Specify RAL number.
9- Faux wood finish not applied to the fixture head or accessories. Additional delay required. Not compatible with marine grade paint.
10- Marine grade paint for harsh, coastal environment and exposure to salt water. Additional delay required.

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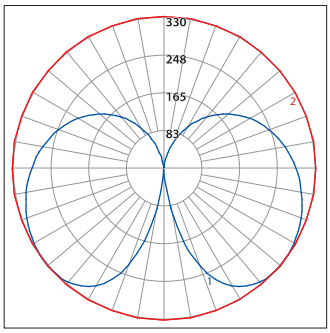
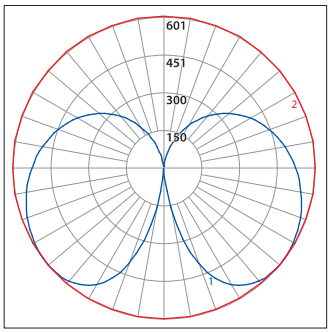
TYPICAL PHOTOMETRY SUMMARY

CL613-L4L30



Total Lms: 3129 Lumens
Total Input Watts: 32.2 W
Efficacy: 97 Lumens/Watt
BUG: B1-U4-G2
CCT/CRI: 4000K/80
Maximum Candela: 330 @ 42.5°/29°V

CL623-L4L50



Total Lms: 5695 Lumens
Total Input Watts: 58.8 W
Efficacy: 97 Lumens/Watt
BUG: B2-U5-G3
CCT/CRI: 4000K/80
Maximum Candela: 600 @ 42.5°/29°V

LUMEN CONVERSION FACTOR (LCF)		
CCT	CRI	LCF
2700K	80	0.91
3000K	80	0.94
3500K	80	0.98
4000K	80	1.00

All Photometry shown use the 80CRI 4000K LEDs.
Please visit our web site www.luminis.com for complete I.E.S. file.

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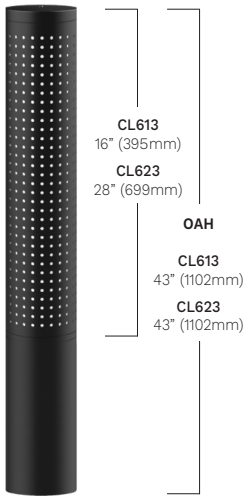
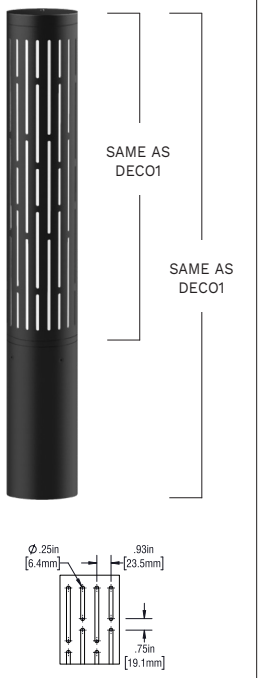
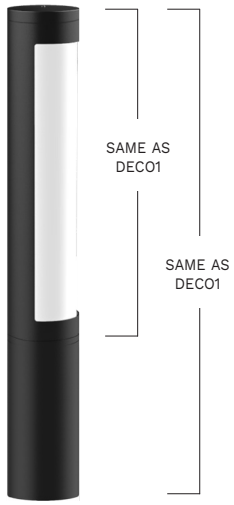
OPTION DETAILS



DECO1
Decorative shroud. 360° shield with circular pattern. 4% light transmission. Cannot be installed on-site. (CL623 shown here)

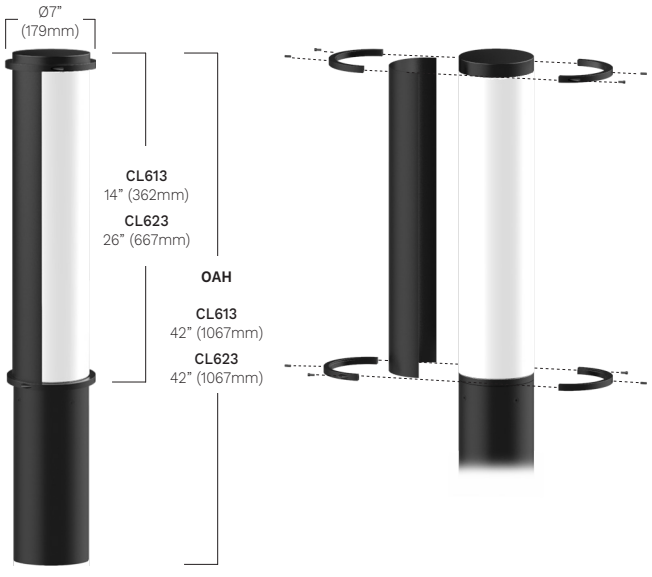


DECO2
Decorative shroud. 360° shield with vertical slot pattern. 18% light transmission. Cannot be installed on-site. (CL623 shown here)



DECO3
Blockout 180° shield.

Cannot be installed on-site. (CL623 shown here)



DECO4
Blockout 180° shield. Field installable. (CL623 shown here)

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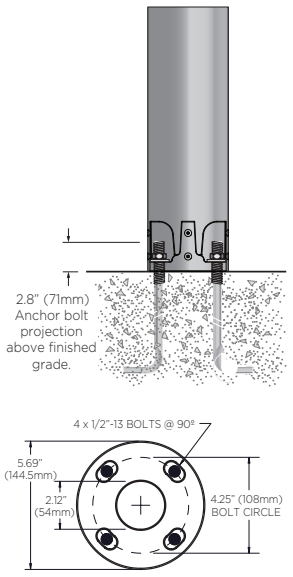
MOUNTING DETAILS



Base is secured with a set of (4) 1/2"-13 x 18" lg. galvanized anchor bolts.

RGBW DMX DETAILS

TOTAL DELIVERED LUMENS

Maximum output values

	WHITE 4000K			TOT RGB			TOT		
	W	lm	lm/ft	W	lm	lm/ft	W	lm	lm/ft
CL613	5	602	602	16	552	552	21	1154	1154
CL623	9	1041	521	26	1005	502	35	2046	1023

The fixtures will be delivered with the default address 1.

RGBW – DMX / RDM 4 CHANNELS

USERS CAN GENERATE ANY COLOR BY MIXING THE INTENSITY OF FOUR INDEPENDENT RED, GREEN, BLUE AND WHITE CHANNELS.

COLOR	R	G	B	W
CHANNEL	1	2	3	4

NOTE: Default factory settings. Controller supplied by others.

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ALED4T125/480/WS4

Color: Bronze

Weight: 32.0 lbs

Project:	Type: SLP1/2
Prepared By:	Date:

Technical Specifications

Compliance

UL Listed:
Suitable for wet locations

DLC Listed:
This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities.DLC Product Code: PFE8RHXX

IP Rating:
Ingress protection rating of IP66 for dust and water

IESNA LM-79 & LM-80 Testing:
RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

Performance

Lifespan:
100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

Wattage Equivalency:
Equvalent to 350W Metal Halide

Construction

IES Classification:
The Type IV distribution (also known as a Forward Throw) is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semicircular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

Maximum Ambient Temperature:
Suitable for use in up to 40°C (104°F)

Cold Weather Starting:
The minimum starting temperature is -40°C (-40°F)

Thermal Management:
Superior thermal management with external "Air-Flow" fins

Lens:
Tempered glass lens

Housing:
Die-cast aluminum housing, lens frame and mounting arm

Reflector:
Specular vacuum-metallized polycarbonate

Gaskets:
High-temperature silicone gaskets

EPA:
1 Fixture: 0.75
2 Fixtures at 90°: 1.2
2 Fixtures at 180°: 2.4
3 Fixtures at 90°: 2.4
4 Fixtures at 90°: 1.8

Finish:
Formulated for high durability and long-lasting color

Green Technology:
Mercury and UV free. RoHS-compliant components.

LED Characteristics

LEDs:
Multi-chip, high-output, long-life LEDs

Color Stability:
LED color temperature is warrantied to shift no more than 200K in color temperature over a 5-year period

Color Uniformity:
RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

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Technical Specifications (continued)

Electrical

Drivers:
Two Drivers, Constant Current, Class 2, 1750mA, 347-480V, 50/60Hz, 0.30A, Power Factor 94.3%

THD:
14.2% at 480V

Power Factor:
94.1% at 480V

Ballast Volts:
480V

Surge Protection:
4kV

Installation

Mounting:
Universal mounting arm compatible for hole spacing patterns from 1" to 5 1/2" center to center. Round Pole Adaptor plate included as a standard. Easy slide and lock to mount fixture with ease. Round pole diameter must be >4" to mount fixtures at 90° orientation.

Other

Compatibility:
Compatible with Round Poles with a diameter of 2.5" to 6"

BAA Compliance:
Click here for BAA compliance.

Warranty:
RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Optical

BUG Rating:
B1 U0 G2

Sensor Settings

Multi Level Motion Sensor:
/WS4 sensor options use state-of-the-art surface mount technology (SMT), just like cellular phones and beepers. SMT gives you more reliability, greater RF immunity. This compact sensor that can fit neatly where others cannot. This sensor technology automatically affects the state of operation for lighting systems or individual luminaries based upon detecting the presence or absence of movement for both people as they exit/enter, or for the motion of moving vehicles within the sensors viewing area. The wide 180° viewing angle can detect movement along the entire side of a building with only one compact sensor. The hard lens is molded as part of the case, vandalproof, rainproof, bugproof and absolutely sealed. Sensor functions best when movement is across its detection pattern, not towards the sensor.

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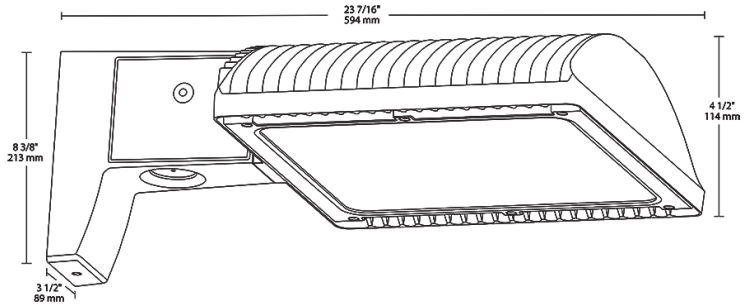
ALED4T125/480/WS4

Dimensions



Features

66% energy cost savings vs. HID

100,000-hour LED lifespan

5-Year, No-Compromise Warranty

Ordering Matrix

Family	Optics	Wattage	Mounting	Color Temp	Finish	Driver Options	Options	Other Options
ALED	4T	125				/480	/WS4	
	3T = Type III **2T =** Type II **4T =** Type IV	**50 =** 50W **78 =** 78W **105 =** 105W **125 =** 125W **150 =** 150W	**Blank =** Pole mount **SF =** Slipfitter	**Blank =** 5000K Cool **N =** 4000K Neutral **Y =** 3000K Warm	**K =** Black **W =** White **Blank =** Bronze **RG =** Roadway Gray	**Blank =** 120-277V **/480 =** 480V **/BL =** Bi-Level **/D10 =** 0-10V Dimming **/480/D10 =** 480V, 0-10V Dimming	**/PCS =** 120V Swivel Photocell **/WS4 =** Multi-Level Motion Sensor 40 ft **/WS2 =** Multi-Level Motion Sensor 20 ft **/PCT4 =** 480V Twistlock Photocell **/PCS4 =** 480V Swivel Photocell **/PCT =** 120-277V Twistlock Photocell **/PCS2 =** 277V Swivel Photocell **/LC =** Lightcloud **Blank =** No Option	**Blank =** Standard **USA =** BAA Compliant

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McGraw-Edison

DESCRIPTION

The Impact Elite family of wall luminaires is the ideal complement to site design. Incorporating modular LightSquares technology, the Impact Elite luminaire provides outstanding uniformity and energy-conscious illumination. Combined with a rugged construction, the Impact Elite luminaire is the ideal facade and security luminaire for zones surrounding schools, office complexes, apartments and recreational facilities. UL/cUL listed for wet locations.

Catalog #		Type
Project		SLW
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction
Heavy-wall, die-cast aluminum housing and removable hinged door frame for precise tolerance control and repeatability. Hinged door inset for clean mating with housing surface and secured via two captive fasteners. Optional tamper-resistant Torx™ head fasteners offer vandal resistant access to the electrical chamber.

Optics
Choice of 10 patented, high-efficiency AccuLED Optics™ distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optics technology creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K, 5000K and 5700K CCT.

Electrical
LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation, greater than 0.9 power factor, less than 20% harmonic distortion, and are suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard with 10kV/10kA common – and differential – mode surge protection. LightSquares feature an IP66 enclosure rating and maintain greater than 90% lumen maintenance at 60,000 hours per IESNA TM-21. Emergency egress options for -20°C ambient environments and occupancy sensor available.

Mounting
Gasketed and zinc plated rigid steel mounting attachment fits directly to 4" j-box or wall with the Impact Elite "Hook-N-Lock" mechanism for quick installation. Secured with two captive corrosion resistant black oxide coated allen head set screws concealed but accessible from bottom of fixture.

Finish
Cast components finished in a five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

Warranty
Five-year warranty.

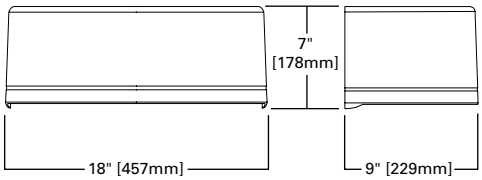
ISC/ISS/IST/ISW
IMPACT ELITE LED

1 LightSquare
Solid State LED

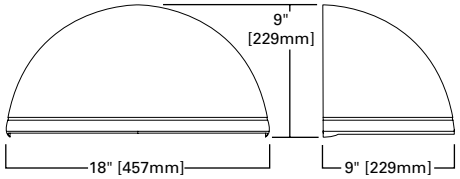
WALL MOUNT LUMINAIRE

DIMENSIONS

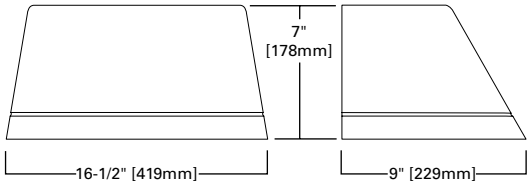
Cylinder



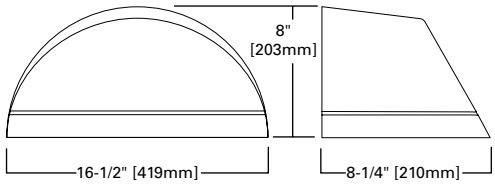
Quarter Sphere



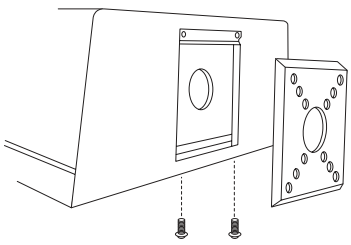
Trapezoid



Wedge



HOOK-N-LOCK MOUNTING



CERTIFICATION DATA
UL/cUL Listed
LM79 / LM80 Compliant
IP66 LightSquare
DesignLights Consortium® Qualified*
ISO 9001

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V/50 & 60Hz, 347V/60Hz, 480V/60Hz
-40°C Minimum Temperature
40°C Ambient Temperature Rating

SHIPPING DATA
Approximate Net Weight:
18 lbs. (8 kgs.)

*www.designlights.org

POWER AND LUMENS

1 LightSquare (AF)		Cylinder (ISC) and Quarter Sphere (ISS)						Trapezoid (IST) and Wedge (ISW)					
Drive Current (mA)		350	450	600	800	1000	1200	350	450	600	800	1000	1200
Power (Watts)	120-277V	20.3	25.5	33.4	43.9	55.1	66.2	20.3	25.5	33.4	43.9	55.1	66.2
Current (A)	120V	0.17	0.22	0.29	0.38	0.48	0.56	0.17	0.22	0.29	0.38	0.48	0.56
	277V	0.09	0.10	0.13	0.17	0.21	0.25	0.09	0.10	0.13	0.17	0.21	0.25
Power (Watts)	347V or 480V	23.3	28.7	36.6	49.5	60.7	70.1	23.3	28.7	36.6	49.5	60.7	70.1
Current (A)	347V	0.07	0.08	0.11	0.15	0.18	0.21	0.07	0.08	0.11	0.15	0.18	0.21
	480V	0.05	0.06	0.08	0.11	0.13	0.16	0.05	0.06	0.08	0.11	0.13	0.16
Optics													
T2	Lumens	2,390	3,001	3,915	4,901	5,793	6,592	2,555	3,208	4,185	5,239	6,193	7,047
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G2	B1-U1-G2
T3	Lumens	2,440	3,063	3,996	5,001	5,912	6,728	2,561	3,216	4,195	5,251	6,207	7,063
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G2	B1-U1-G2
T4FT	Lumens	2,414	3,031	3,955	4,950	5,851	6,658	2,589	3,250	4,240	5,308	6,274	7,139
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2
T4W	Lumens	2,441	3,065	3,998	5,004	5,916	6,732	2,557	3,211	4,189	5,244	6,198	7,053
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2
SL2	Lumens	2,309	2,899	3,782	4,734	5,596	6,368	2,469	3,100	4,044	5,062	5,983	6,809
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G2	B1-U1-G2
SL3	Lumens	2,271	2,851	3,719	4,656	5,503	6,262	2,419	3,038	3,963	4,961	5,864	6,673
	BUG Rating	B0-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B0-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G2	B1-U1-G2
SL4	Lumens	2,158	2,710	3,535	4,425	5,230	5,951	2,286	2,870	3,744	4,686	5,539	6,303
	BUG Rating	B0-U0-G1	B0-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B0-U1-G1	B0-U1-G1	B1-U1-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2
SLL/SLR	Lumens	2,036	2,555	3,334	4,174	4,934	5,614	2,204	2,767	3,610	4,519	5,341	6,078
	BUG Rating	B0-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U1-G1	B1-U1-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
RW	Lumens	2,435	3,057	3,987	4,992	5,900	6,715	2,521	3,166	4,130	5,170	6,111	6,954
	BUG Rating	B1-U0-G0	B2-U0-G0	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B1-U1-G1	B2-U1-G1	B2-U1-G1	B2-U1-G1	B2-U1-G1	B3-U1-G1

LUMEN MAINTENANCE

Current	Ambient Temperature	25000 Hours*	50000 Hours*	60000 Hours*	100000 Hours*	Theoretical L70 (Hours)*
Up to 1.2A	Up to 40°C	>95%	>91%	>90%	>83%	204,000

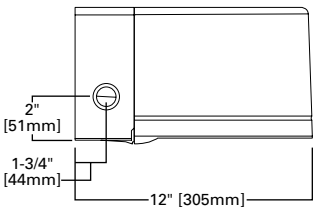
*Data calculated based on TM-21 calculator.

LUMEN MULTIPLIER

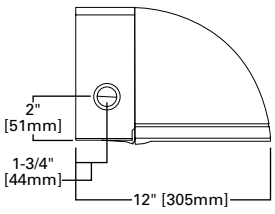
Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99

THRUWAY BACK BOX

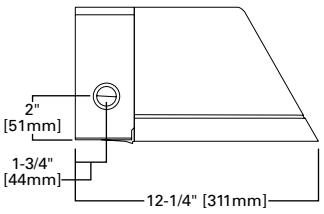
Cylinder



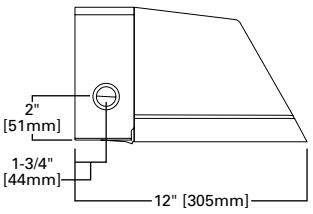
Quarter Sphere



Trapezoid



Wedge



CONTROL OPTIONS

0-10V
This fixture is offered standard with 0-10V dimming driver.

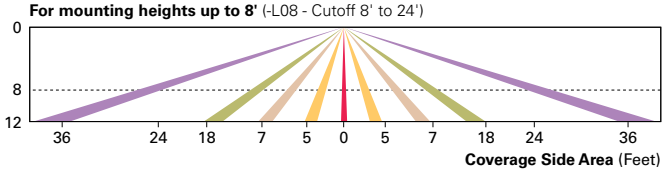
Photocontrol (PC1, PC2 and PER7)
Optional button-type photocontrol provides a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels.

After Hours Dim (AHD)
This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

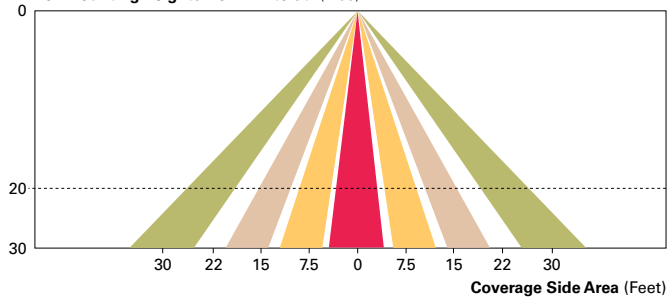
Dimming Occupancy Sensor (MS/DIM-LXX)
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting -- the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-40'.

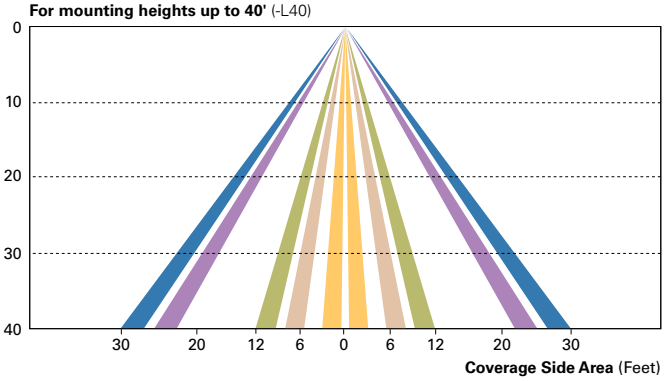
For mounting heights up to 8' (-L08 - Cutoff 8' to 24')



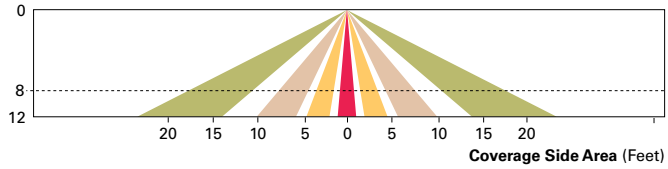
For mounting heights from 12' to 30' (-L30)



For mounting heights up to 40' (-L40)

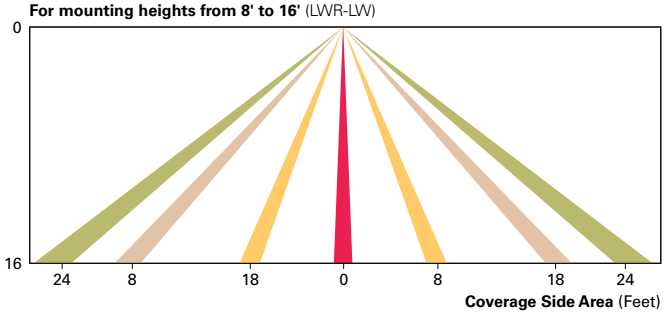


For mounting heights from 8' to 12' (-L12)

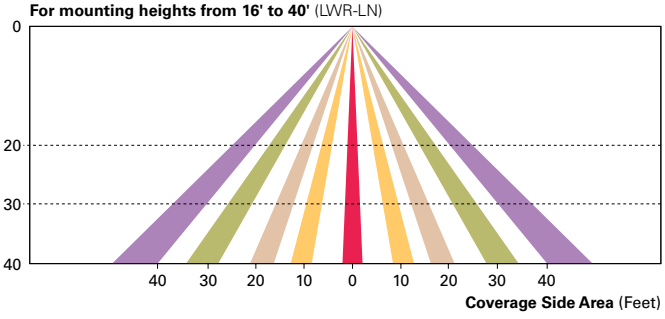


Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN)
Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.

For mounting heights from 8' to 16' (LWR-LW)



For mounting heights from 16' to 40' (LWR-LN)



WaveLinx Wireless Outdoor Lighting Control Module (WOLC-7P-10A)
The 7-pin wireless outdoor lighting control module enables WaveLinx to control outdoor area, site and flood lighting. WaveLinx controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.

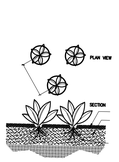
ORDERING INFORMATION

Sample Number: ISC-AF-1200-LED-E1-T3-BZ

Product Family [1]	Light Engine	Drive Current	Lamp Type	Voltage	Distribution	Color
ISC=Impact Elite LED Small Cylinder **ISS**=Impact Elite LED Small Quarter Sphere **IST**=Impact Elite LED Small Trapezoid **ISW**=Impact Elite LED Small Wedge	**AF**=(1) LightSquare	**350**=Drive Current Factory Set to 350mA **450**=Drive Current Factory Set to 450mA **600**=Drive Current Factory Set to 600mA **800**=Drive Current Factory Set to 800mA **1000**=Drive Current Factory Set to 1000mA **1200**=Drive Current Factory Set to 1200mA [2]	**LED**=Solid State Light Emitting Diodes	**E1**=Electronic (120-277V) **347**=347V [2] **480**=480V [2, 3]	**T2**=Type II **T3**=Type III **T4FT**=Type IV Forward Throw **T4W**=Type IV Wide **SL2**=Type II w/Spill Control **SL3**=Type III w/Spill Control **SL4**=Type IV w/Spill Control **SLL**=90° Spill Light Eliminator Left **SLR**=90° Spill Light Eliminator Right **RW**=Rectangular Wide Type I	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White

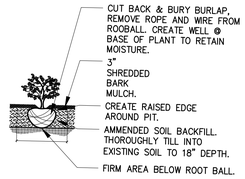
Options (Add as Suffix)	**Accessories** (Order Separately) [16]
7027=70 CRI / 2700K CCT [4] **7030**=70 CRI / 3000K CCT [4] **7050**=70 CRI / 5000K CCT [4] **7060**=70 CRI / 5700K CCT [4] **8030**=80 CRI / 3000K CCT [4] **AMB**=Amber 590nm [22, 23] **PER7**=NEMA 7-PIN Twistlock Photocontrol Receptacle [2, 5, 6] **P**=Button Type Photocontrol (Available in 120, 208, 240 or 277V. Must Specify Voltage) [2, 6] **HA**=50°C High Ambient [7] **AHD145**=After Hours Dim, 5 Hours, 50% [8] **AHD245**=After Hours Dim, 6 Hours, 50% [8] **AHD255**=After Hours Dim, 7 Hours, 50% [8] **AHD355**=After Hours Dim, 8 Hours, 50% [8] **MS/DIM-LXX**=Motion Sensor for Dimming Operation [9, 10, 11] **LWR-LW**=Enlighted Wireless Sensor, Wide Lens for 8' - 16' Mounting Height [6, 11, 12] **LWR-LN**=Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height [6, 11, 12] **CBP**=Battery Pack with Back Box, Cold Weather Rated [13, 21] **CBP-CEC**=Battery Pack with Back Box, Cold Weather Rated, CEC compliant [13] **LCF**=LightSquare Trim Plate Matches Housing Finish **HSS**=Factory Installed House Side Shield [14] **ULG**=Uplight Glow [5, 6] **TR**=Tamper Resistant Hardware **X**=Driver Surge Protection (6kV) Only [15] **ZW**=WaveLinx-enabled 4-PIN Twistlock Receptacle [18, 19] **ZD**=WaveLinx Module with DALI driver and 4-PIN Receptacle [18, 19] **SWPD4XX**=WaveLinx Sensor Only, 7′-15′ [16, 20] **SWPD5XX**=WaveLinx Sensor Only, 15′-40′ [16, 20]	**MA1253**=10kV Circuit Module Replacement **MA1254-XX**=Thruway Back Box - Impact Elite Trapezoid **MA1255-XX**=Thruway Back Box - Impact Elite Cylinder **MA1256-XX**=Thruway Back Box - Impact Elite Quarter Sphere **MA1257-XX**=Thruway Back Box - Impact Elite Wedge **FSIR-100**=Wireless Configuration Tool for Occupancy Sensor **WOLC-7P-10A**=WaveLinx Outdoor Control Module (7-pin) [17, 18] **SWPD4-XX**=Wavelinx Wireless Sensor, 7′ – 15′ Mounting Height [16, 18, 19, 20] **SWPD5-XX**=Wavelinx Wireless Sensor, 15′ – 40′ Mounting Height [16, 18, 19, 20]

NOTES:
1. Standard 4000K CCT and greater than 70 CRI.
2. Not available with ULG option.
3. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
4. Exentended lead times apply.
5. Not available with ISS or ISW.
6. Not available with LWR-XX or MS/DIM-LXX.
7. Suitable for 50°C provided no options other than motion sensor are included and driver output set to 1.A or less.
8. Requires the use of P photocontrol or the PER7 photocontrol receptacle with photocontrol accessory. Not available with 350mA drive current. See After Hours Dim supplemental guide for additional information.
9. Specify lens in place of XX. Round to next highest option based on mounting height. Available options are 08, 20 and 40W.
10. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information.
11. Includes integral photocell.
12. Enlighted wireless sensors are factory installed and requiring network components in appropriate quantities. See www.cooperlighting.com for Enlighted application information.
13. Battery pack with back box rated for operating temperature of -20°C to +40°C. Operates downlight for 90-minutes.
14. Only for use with SL2, SL3 and SL4 distributions. The LightSquare trim plate is painted black when the HSS option is selected.
15. Removes additional surge module.
16. Replace XX with sensor color (WH, BZ, or BK).
17. Requires PER7.
18. Cannot be used in conjunction with photocontrol or other controls systems (P, R, MS, LWR).
19. WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed.
20. Requires ZW or ZD receptacle.
21. Must specify 120V or 277V.
22. Amber 590nm +/-5nm. Choose drive current 450 (nominal), actual drive current provided is 500mA. Available with SL2, SL3 and SL4 optics.
23. Not available with HA option.



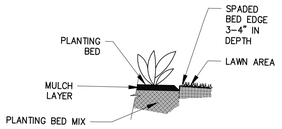
GROUNDCOVER/PRENNIAL PLANTING

Scale: 3/4" : 1'



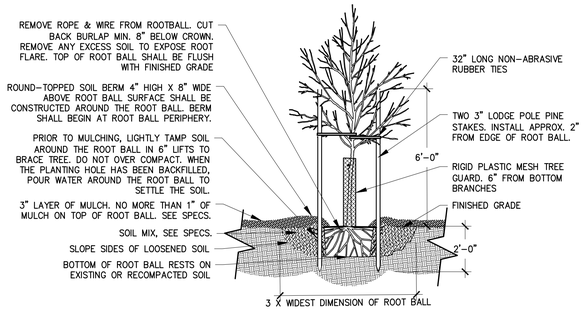
SHRUB PLANTING

Scale: 3/4" : 1'



PLANTING BED EDGING

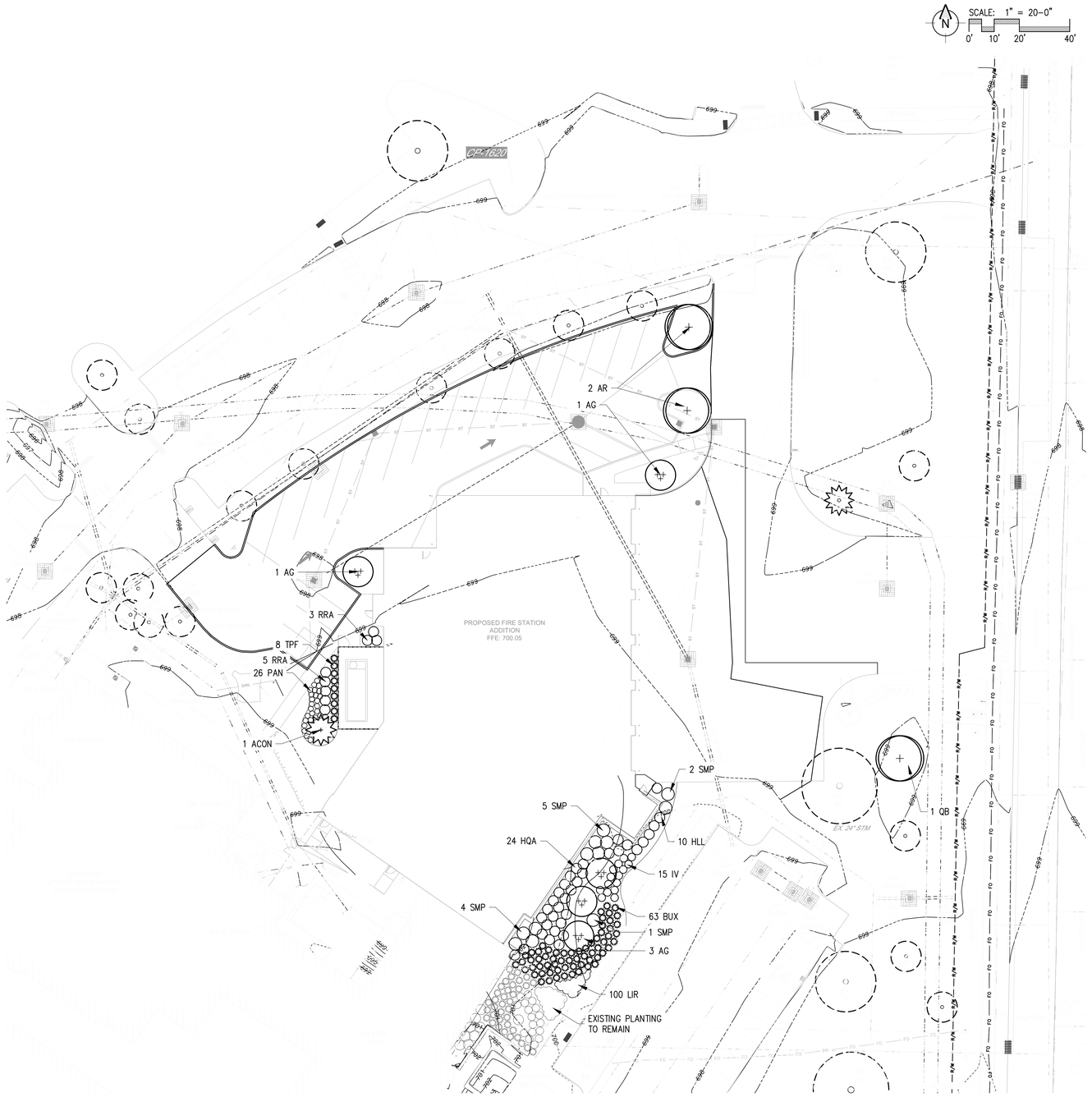
Scale: 3/4" : 1'



TREE PLANTING & STAKING

Scale: 3/8" : 1'-0"

Plant Schedule					
Key	**Qty**	**Botanical / Common Name**	**Size**	**Cond.**	**Spacing**
		Trees			
ACON	1	Abies concolor / Concolor White Fir	6' Ht.	B&B	See Plan
AR	2	Acer rubrum 'Red Sunset' / Red Maple	2.5" Cal.	B&B	See Plan
AG	5	Amelanchier x grandiflora 'Autumn Brilliance' / Serviceberry, multi-stem	8' Ht.	B&B	See Plan
QB	1	Quercus bicolor / Swamp White Oak	3.0" Cal.	B&B	See Plan
		Shrubs			
BUX	63	Buxus x 'NewGen Freedom' / NewGen Freedom Boxwood	24"	No. 3	3' O.C.
HLL	10	Hydrangea paniculata Little Lime / Little Lime Hydrangea	18"	No. 3	4' O.C.
HQA	24	Hydrangea quercifolia 'Applause' / Applause Oakleaf Hydrangea	24"	No. 5	4' O.C.
IV	15	Itea v. 'Little Henry'/ Little Henry Dwarf Sweetspire	18"	No. 3	3' O.C
RRA	8	Rosa rugosa 'Alba' / White Rugosa Rose	24"		6' O.C.
SMP	12	Syringa meyeri 'Palabin' / Palabin Lilac	24"	B&B	5' O.C.
TPF	8	Thuja p. 'Fastigiata'/ Fastigiate Western Arborvitae	6'	B&B	3' O.C.
		Grasses			
LIR	100	Liriope spicata / Creeping Lily Turf	Clump	No. 1	12" O.C.
PAN	25	Panicum virgatum 'Shenandoah'/ Red Switch Grass	Clump	No. 2	24" O.C.



PERSPECTUS

PRELIMINARY
NOT FOR CONSTRUCTION

24-114
New Fire Station
City of Rocky River
21012 Hilliard Blvd
Rocky River, Ohio 44116

ISSUE	DA
Schematic Design	03-26-2
Design Development	06-19-2
Design Review	07-15-2

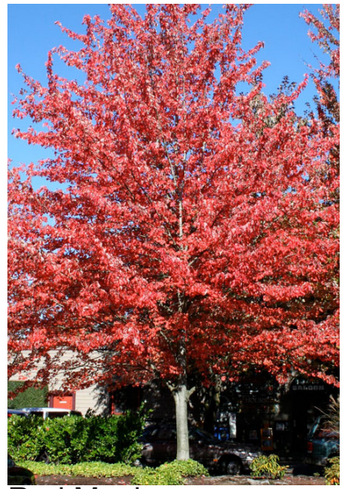
Landscape Plan

L-100

Little Lime Hydrangea

Swamp White Oak

Concolor White Fir



Red Maple

Serviceberry, multi-stem

Fastigiate Western Arborvitae

Red Switch Grass

White Rugosa Rose

Applause Oakleaf Hydrangea

Palabin Lilac

Little Henry Dwarf Sweetspire

NewGen Freedom Boxwood

Creeping Lily Turf

DERUlandscape architecture
812 Huron Road E, #411 Cleveland. OH 44115 | 216.466.4355

PLANT SELECTION

Rocky River Fire Station

07.30.2025