SYRACUSE LANDMARK PRESERVATION BOARD

Certificate of Appropriateness Application

Case Number:

CA-19-16

Submit by mail or by hand to:

Syracuse Landmark Preservation Board
City Hall Commons, Room 512
201 E. Washington Street
Syracuse, NY 13202

Electronic submissions to: SLPB@syrgov.net

APPLICATION

I. Applicant's Name: Franciscan Church of the Assumption
Address: 812 N. Salina Street
Syracuse, NY
Phone: 315-422-4833 email: jennifer@assumptionsyr.org

II. Work is proposed for property at (address): 812 N. Salina Street, Syracuse

This property is:
- ☒ individual Protected Site
- ☐ located within a Preservation District

III. This application is for the following (check as many as appropriate; complete only the parts indicated with each work item):
- ☐ Partial or complete demolition (Complete Part 1)
- ☐ Alteration to texture or material composition of building exterior (Complete Part 2)
- ☐ Alteration to texture or material composition of building interior (only if interior is designated a Protected Site; Complete Part 2)
- ☐ Change in color (Complete Part 3)
- ☐ Cleaning (Complete Part 3)
- ☐ Addition to existing building (Complete Part 4)
- ☐ New building construction (Complete Part 4)
- ☒ Alteration to site including excavation, change in land contours, installation of pavement for parking lots, driveways, or sidewalks (Complete Part 5)
- ☐ Deposit of refuse or waste material (Complete Part 5)
- ☐ Change in signage or advertising (Complete Part 6)

Applicant's Signature: _____ Date: _____

Owner's Signature: J.R. Ricciuti Date: 26 August 2019

**Submission of this application or approval of a Certificate of Appropriateness does not relieve the applicant of his/her responsibilities in obtaining other permits and/or approvals as prescribed by law. The Syracuse Landmark Preservation Board uses the United States Secretary of the Interior's Standards as guidelines for review of proposals. A copy of these standards is available at the SLPB office or online at* https://www.nps.gov/tps/standards/rehabilitation/rehab/stand.htm.

Alteration: Part 2

2-1 Please describe the nature of the work for which the Certificate of Appropriateness is being sought: Project funded by Onondaga County's Save the Rain program consisting of construction of two porous asphalt lots and two rain gardens. Construction of the porous asphalt lots essentially involve replacement of asphalt lots with porous surfaces. Existing gutter downspouts will be retrofit with elbows to allow discharge to stormwater catch basins located in the lots. The rain gardens will be created in the lawn in front of the friary to manage runoff from the friary and adjoining church. Lastly, the guard rain at the lot on N. Salina Street will be removed and replaced with a grass strip, trees, and a 4-ft high painted aluminum fence that will match other fencing in front of the friary and the nearby Isabella Lofts.

2-2 Is the history of existing materials and building components known?

- ☒ Yes
- ☐ No

2-3 Does the alteration attempt to return the building to a known former appearance?

- ☐ Yes
- ☒ No
- ☐ Unknown

2-4 Does the proposal call for the covering or removal of existing materials or finishes? (i.e. installation of new siding).

- ☒ No
- ☐ Yes (please explain what will be covered or removed). _____

2-5 Materials to be removed or covered are: N/A

- ☐ Part of the original building
- ☐ Part of a subsequent addition (please give date if known_____).
- ☐ Not Known

2-6 Can materials that are to be covered or removed be exposed or reattached in the future without damage? N/A

- ☐ Yes
- ☐ No

2-7 **Please submit the following: photos of the existing building and site of proposed work; site plan and elevation drawings of proposed alteration; materials list; and manufacturer's cut sheets or other descriptive materials that illustrate the proposed alteration.**

Cleaning/Painting: Part 3

3-1 This application is for:

- ☐ Painting of building exterior
- ☐ Cleaning of building exterior
- ☐ Painting of building interior (only of interior is designated).
- ☐ Cleaning of building interior (only if interior is designated).

3-2 The components to be painted and/or cleaned are made of: _____

_____

3-3 The cleaning process that is being proposed is: _____

_____

3-4 Do new colors match a previous color scheme?

- ☐ Yes
- ☐ No

Please submit color chips of proposed colors if proposed colors are different from existing scheme.

Additional/New Construction: Part 4

4-1 This application is for:

- ☐ Addition to existing structure
- ☐ Construction of new building

4-2 Is proposed addition or new construction in public view from neighboring streets?

- ☐ Yes
- ☐ No

4-3 What is the purpose of the purposed addition or new building? _____

_____

_____

4-4 Describe how the new construction is compatible in scale, materials, and texture to the design of the existing structure and the character of surrounding buildings: _____

_____

_____

_____

_____

_____

_____

_____

_____

4-5 Submit a site plan, elevation drawings and a materials list for the new construction.

Alteration of Site: Part 5

5-1 This application is for:

- ☐ Deposit of refuse
- ☒ Alteration to site

5-2 Describe the nature of the work for which the Certificate of Appropriateness is being sought: Modifications to existing rainwater downspouts. Rain gardens in front of friary.

5-3 Does the proposed alteration call for removal of site components such as plantings, trees, fencing, walkways, outbuildings, gates, and/or other elements?

- ☐ No
- ☒ Yes (Please explain)

Existing galvanized steel guardrail at North Salina Street

5-4 How will the proposed alteration to the site change the character of the property? (e.g., parking in public view in front of structure). Please explain:

Enhancement of landscaping in front of friary. Improved entrance at North Salina Street.

5-5 Include photos, or drawings of the existing and the existing site and the locations of proposed site changes.

Signage: Part 6 N/A

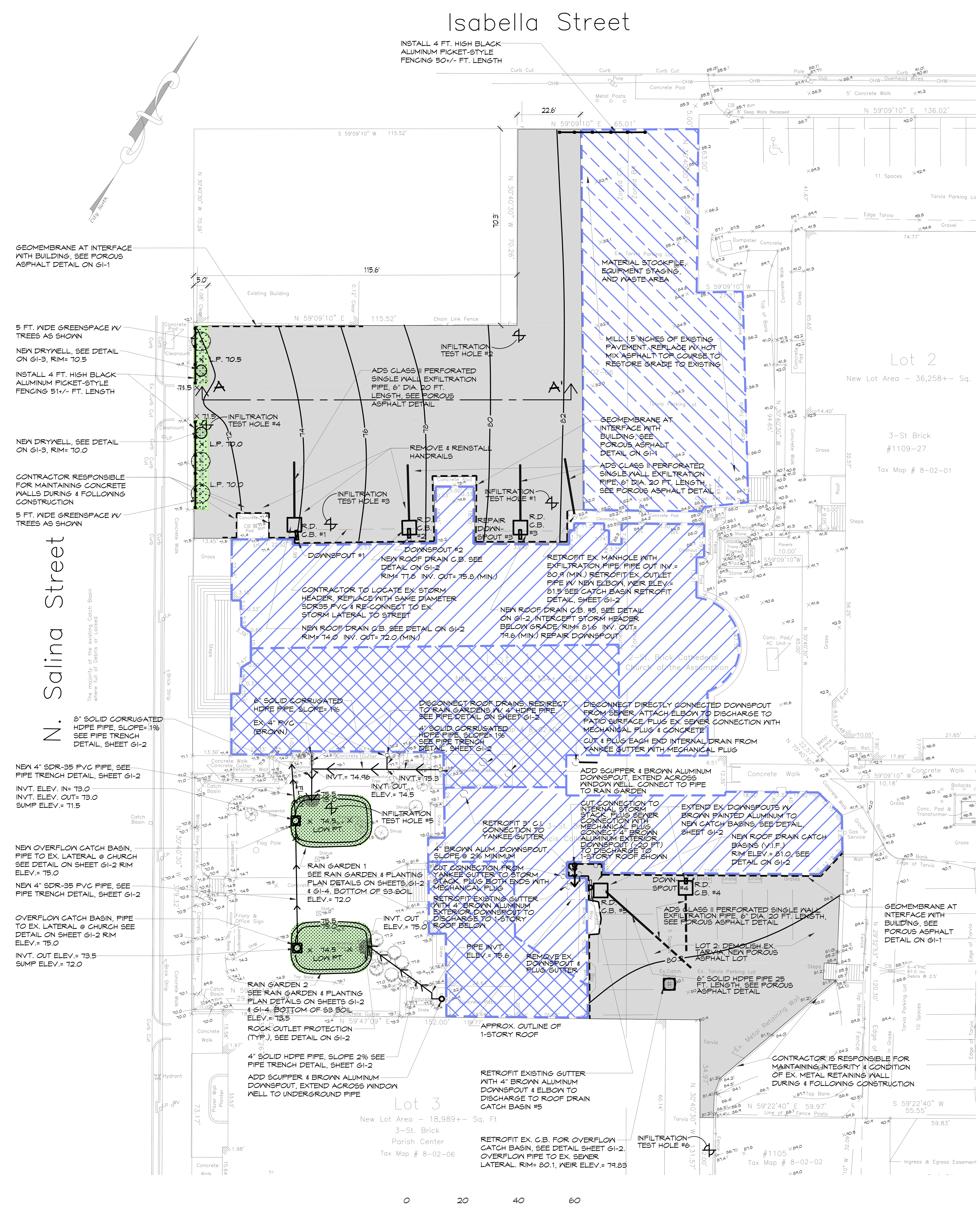
6-1 The proposed signage is:

- ☐ Wall sign
- ☐ Projecting
- ☐ Sign on awning
- ☐ Window signage
- ☐ Other (Please explain) _____

6-2 Describe and illustrate the design of the proposed signage: _____

6-3 Include a drawing of the sign and photos of the building façade showing the size of the sign and where the sign will be located.

6-4 Describe and illustrate how the proposed signage will be attached to the building.



SITE PLAN
SCALE: 1"=20'-0"

Table 1: Infiltration Test Results Location: Assumption Church GIF #165, 812 N. Salina Street, Syracuse 10/25/2018 - 10/26/2018								
Test Hole #	Pit Depth (in)	Time	Results: Trial 1	Trial 2	Trial 3	Trial 4	Rate (in/hr)	Soil Description
1	36	Start (in)	10.25		10	10.125		0"-6": asphalt
		Finish (in)	10.375		10.125	10.5	0.06	6" - 3' lt brwn, gray cly w slt
		Duration (min)	123		112	173		and fn snd
2	36	Start (in)	15.56	9	9.25	9.25		0"-6": asphalt
		Finish (in)	15.75	9.25	9.25	9.25	0.08	6" - 3' lt brwn, cly w fine snd
		Duration (min)	116	72	139	126		and silt
3	36	Start (in)	16.125	11.375	12.75	9.5		0"-4": asphalt
		Finish (in)	36	36	32.5	15	52.69	4" - 7" concrete
		Duration (min)	110	246	41	2		7" - 3' cly, fn snd, silt
4	36	Start (in)	9.25	9.375	9.375	9.5		0"-6": asphalt
		Finish (in)	9.375	9.375	9.375	9.75	0.09	6" - 3' : gray clay
		Duration (min)	105	234	111	164		
5	36	Start (in)	20.188	15.75	8.75	13.25		0"-3": organic
		Finish (in)	29.5	28.875	8.875	23.25	7.21	3" - 3' lt brown fn snd, silt, clay
		Duration (min)	89	96	106	42		
6	36	Start (in)	17.625	18.5	21	18		0"-6": asphalt
		Finish (in)	32	32	31.5	31	14.09	6" - 3' lt brwn and gray, fn snd,
		Duration (min)	115	97	30	40		silt and clay

Table 2a: Porous Asphalt Lot 1 (N. Salina St.) Stormwater Retention Calculations - 812 N. Salina St. (GIF #165).

Porous Lot Area	11,500	sq ft
Total impervious contributing area	27,070	sq ft
Stormwater Mitigation:		
Porous Lot		
Depth of design event	2.00	in
Runoff Volume from design event	4,512	cu ft
Effective depth of infiltration basin storage:	12	in
Infiltration Basin Porosity	40%	
Maximum stormwater retention:	4,600	cu ft

Table 2b: Porous Asphalt Lot 2 (N. Salina St.) Stormwater Retention Calculations - 812 N. Salina St. (GIF #165)

Porous Lot Area	5,037	sq ft
Total impervious contributing area	11,077	sq ft
Stormwater Mitigation:		
Porous Lot		
Depth of design event	2.00	in
Runoff Volume from design event	1,846	cu ft
Effective depth of infiltration basin storage:	11	in
Infiltration Basin Porosity	40%	
Maximum stormwater retention:	1,847	cu ft

Table 3a: Rain Garden 1 Stormwater Retention Calculations - 812 N. Salina St. (GIF #165).

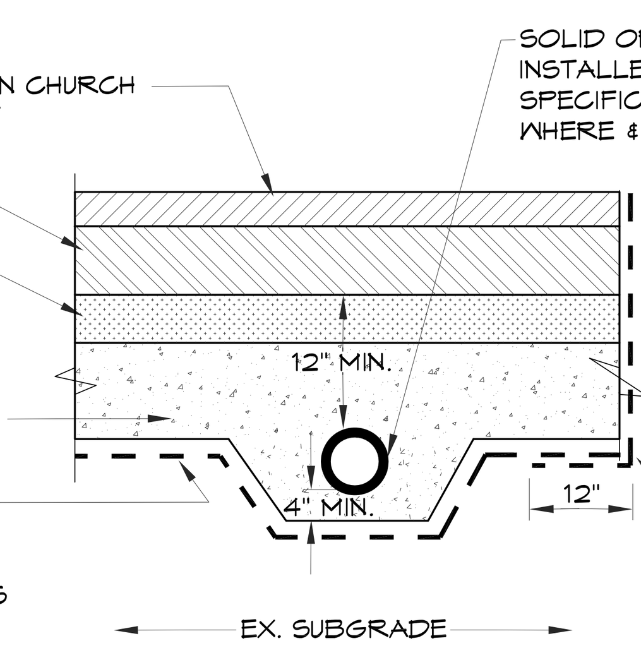
Rain Garden Area	600	sq ft
Total impervious contributing area	4,833	sq ft
Stormwater Mitigation:		
Rain Garden		
Depth of design event	2.00	in
Runoff Volume from design event	806	cu ft
Ponding depth	6	in
Depth of soil media:	36	in
Bioretention soil porosity	30%	
Maximum stormwater retention:	840	cu ft

Table 3b: Rain Garden 2 Stormwater Retention Calculations - 812 N. Salina St. (GIF #165).

Rain Garden Area	400	sq ft
Total impervious contributing area	1,439	sq ft
Stormwater Mitigation:		
Rain Garden		
Depth of design event	2.00	in
Runoff Volume from design event	240	cu ft
Ponding depth	6	in

GIF LEGEND

- POROUS ASPHALT 16,537 Sq.Ft. TOTAL
- CONTRIBUTING ROOF AREA TO POROUS ASPHALT
- RAIN GARDENS 1,000 Sq.Ft. TOTAL
- CONTRIBUTING ROOF AREA TO RAIN GARDEN
- CONTRIBUTING LOT AREA TO POROUS ASPHALT



POROUS ASPHALT / PIPE DETAIL
SCALE: NONE

GENERAL NOTES:

1. THIS DESIGN IS FOR GREEN INFRASTRUCTURE (GI) MEASURE(S) INTENDED TO MITIGATE STORMWATER RUNOFF ASSOCIATED WITH IMPERVIOUS AREA(S). PROJECT IS BEING UNDERTAKEN PER THE CLIENT'S APPLICATION FOR REIMBURSEMENT OF SUCH GI UNDER ONONDAGA COUNTY'S "SAVE THE RAIN" PROGRAM. BECAUSE SUCH GI MEASURES INHERENTLY INVOLVE AN INFILTRATION COMPONENT, SUBSURFACE HYDROLOGY WILL INEVITABLY BE ALTERED. THIS DESIGN MAY INCORPORATE CERTAIN PRACTICAL AND SOUND ENGINEERING MEASURES INTENDED TO MITIGATE THE EFFECTS OF SUCH INFILTRATION ON BUILDING BASEMENTS AND OTHER SITE INFRASTRUCTURE, AS CONSIDERED PRUDENT & FEASIBLE, GIVEN THE TECHNICAL AND FISCAL CONSTRAINTS OF THE PROGRAM. NSE CANNOT AND DOES NOT ASSUME ANY LIABILITY, HOWEVER, FOR SUCH IMPACT TO ON-SITE INFRASTRUCTURE RESULTING FROM INFILTRATION OCCURING AS A RESULT OF THE IMPLEMENTATION OF THIS PLAN.
2. ALL UNDERGROUND ITEMS ARE TO BE CONSIDERED APPROXIMATE LOCATIONS ONLY. ADDITIONAL BURIED UTILITIES OR STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE TO LOCATE BURIED UTILITIES / STRUCTURES. ALL UNDERGROUND UTILITIES MUST BE VERIFIED BY CONTRACTOR, INCLUDING BUT NOT LIMITED TO CONTACTING DIG-SAFELY NY AT 800-962-7962, PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING STRUCTURES AND OTHER IMPROVEMENTS ADJACENT TO ANY AND ALL EXCAVATIONS AND OTHER CONSTRUCTION ACTIVITIES
4. UNLESS OTHERWISE NOTED, ALL MATERIALS & METHODS OF CONSTRUCTION SHALL CONFORM TO NYSDOT STANDARD DETAILS & SPECIFICATIONS.
5. CONTRACTOR SHALL ENSURE THAT NEITHER EROSION OR SEDIMENTATION RESULTING IN ADVERSE IMPACT TO CITY SEWER SYSTEM OR ADJACENT/DOWNSTREAM PROPERTY(IES), THROUGH THE USE OF SILT FENCING, CATCH BASIN INLET PROTECTION, AND/OR OTHER ESC MEASURES, IF NECESSARY. PROJECT IS A REDEVELOPMENT PROJECT AS DEFINED BY NYSDEC AND WILL RESULT IN A NET DECREASE IN IMPERVIOUS AREA, THUS RESULTING IN IMPROVEMENT OVER EXISTING CONDITIONS WITH RESPECT TO STORMWATER QUALITY AND QUANTITY
6. MATERIALS SELECTED AND METHODS OF ATTACHMENT FOR ALL BUILDING ATTACHMENTS, SUCH AS GUTTERS AND DOWNSPOUTS, ARE SUBJECT TO APPROVAL BY OWNER, IN CONSULTATION WITH AN ARCHITECT AT OWNER'S DISCRETION. CONTRACTOR SHALL CONSULT WITH OWNER ON ALL SUCH MATERIALS AND METHODS OF ATTACHMENT."
7. PIPE RUNS SHALL BE INSTALLED AT A SLOPE OF 2% OR GREATER UNLESS OTHERWISE NOTED

SURVEY NOTES:

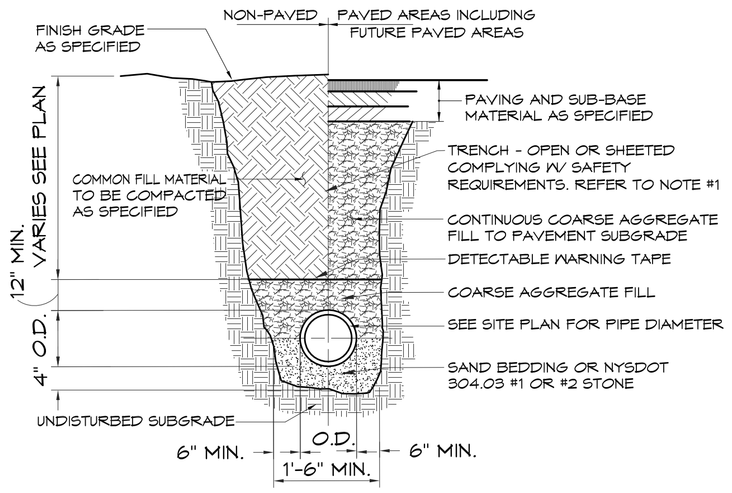
1. ELEVATIONS ARE BASED ON CITY OF SYRACUSE DATUM
2. TOPOGRAPHY BASED ON SURVEY BY DAVID W. HANNIG, L.S.#047411 SURVEYING (MANLIUS, NEW YORK) DATED JANUARY 23, 2018
3. INVERT ELEVATIONS AT CATCH BASINS WERE NOT ACCESSIBLE AT TIME OF SURVEY.
4. CONTRACTOR TO MAINTAIN, RELOCATE, OR REPLACE ALL EXISTING SURVEY MONUMENTS, CONTROL POINTS, BENCHMARKS, AND STAKES WHICH ARE DISTURBED OR DESTROYED DURING CONSTRUCTION. PERFORM THE WORK TO PROVIDE THE SAME LEVEL OF ACCURACY AS THE ORIGINAL MONUMENT(S) IN A TIMELY MANNER, AND AT THE CONTRACTOR'S EXPENSE.
5. SURVEY PREPARED WITHOUT THE BENEFIT OF AN UP-TO-DATE ABSTRACT OF TITLE.
6. UTILITIES AS DEPICTED HEREON PER FIELD LOCATION & THE CITY OF SYRACUSE ENGINEERING DEPARTMENT AND ARE APPROXIMATE ONLY
7. LOT INFO: LOTS ONE & TWO, BLOCK 130

REVISIONS No.	BY	DATE	DESCRIPTION
1	KET	7.25.19	RESPONSE TO COMMENTS FROM CITY ENGINEERING

NATURAL•SYSTEMS ENGINEERING
120 E. WASHINGTON ST., SYRACUSE, NEW YORK 13202, 315-849-3632

STAMP:

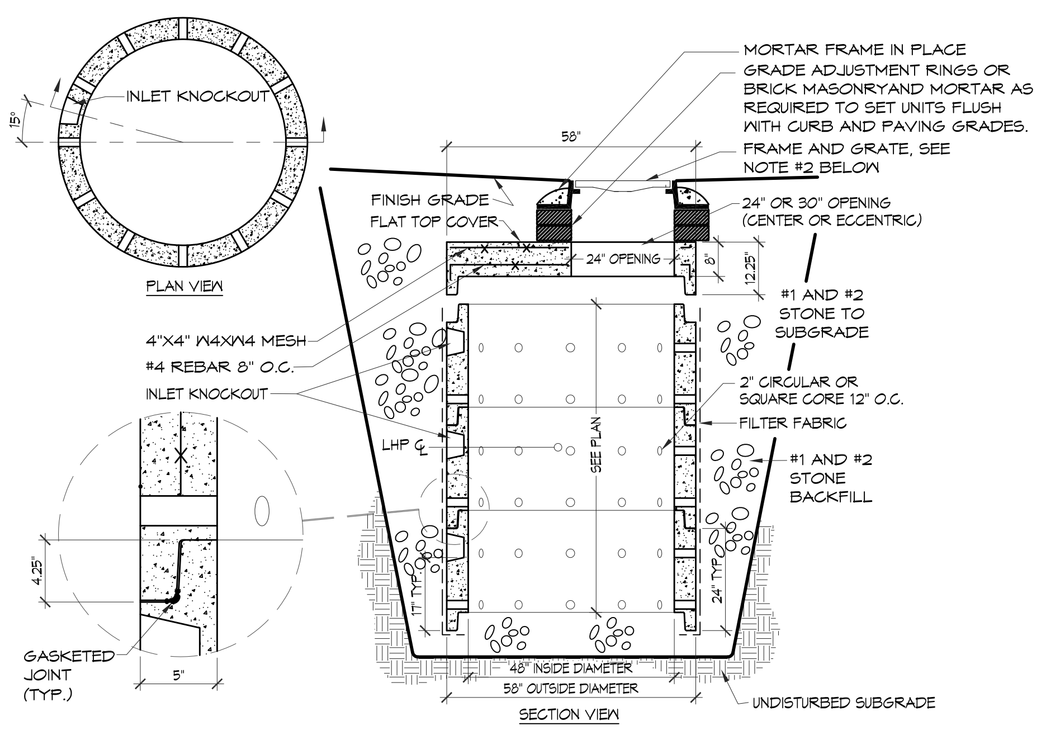
SCALE: AS NOTED
CLIENT: **The Franciscan Church of the Assumption**, 812 North Salina Street, Syracuse, New York
DATE: 10-22-18
PROJECT: **Assumption Church Green Infrastructure Project (GIF#165)**, 812 North Salina Street, Syracuse, New York
PREPARED BY: KET
TITLE: SITE PLAN & DETAILS
CHECKED BY: ART
SHEET NO: GI-1



NOTE:
1. TRENCH DEPTHS, WIDTHS, SHEETING, SHORING, BRACING & CUTBACK SLOPES TO BE DETERMINED BY THE CONTRACTOR AND SHALL COMPLY WITH O.S.H.A., NEW YORK STATE DEPT. OF LABOR, NEW YORK STATE INDUSTRIAL CODE & ALL OTHER APPLICABLE SAFETY STANDARDS.
2. REFER TO PLAN FOR PAVED AND NON-PAVED DETAILS.
3. ALL EXCAVATIONS SHALL BE BACKFILLED & STABILIZED AT THE END OF EACH WORK DAY.

PIPE / TRENCH DETAIL

SCALE: NONE



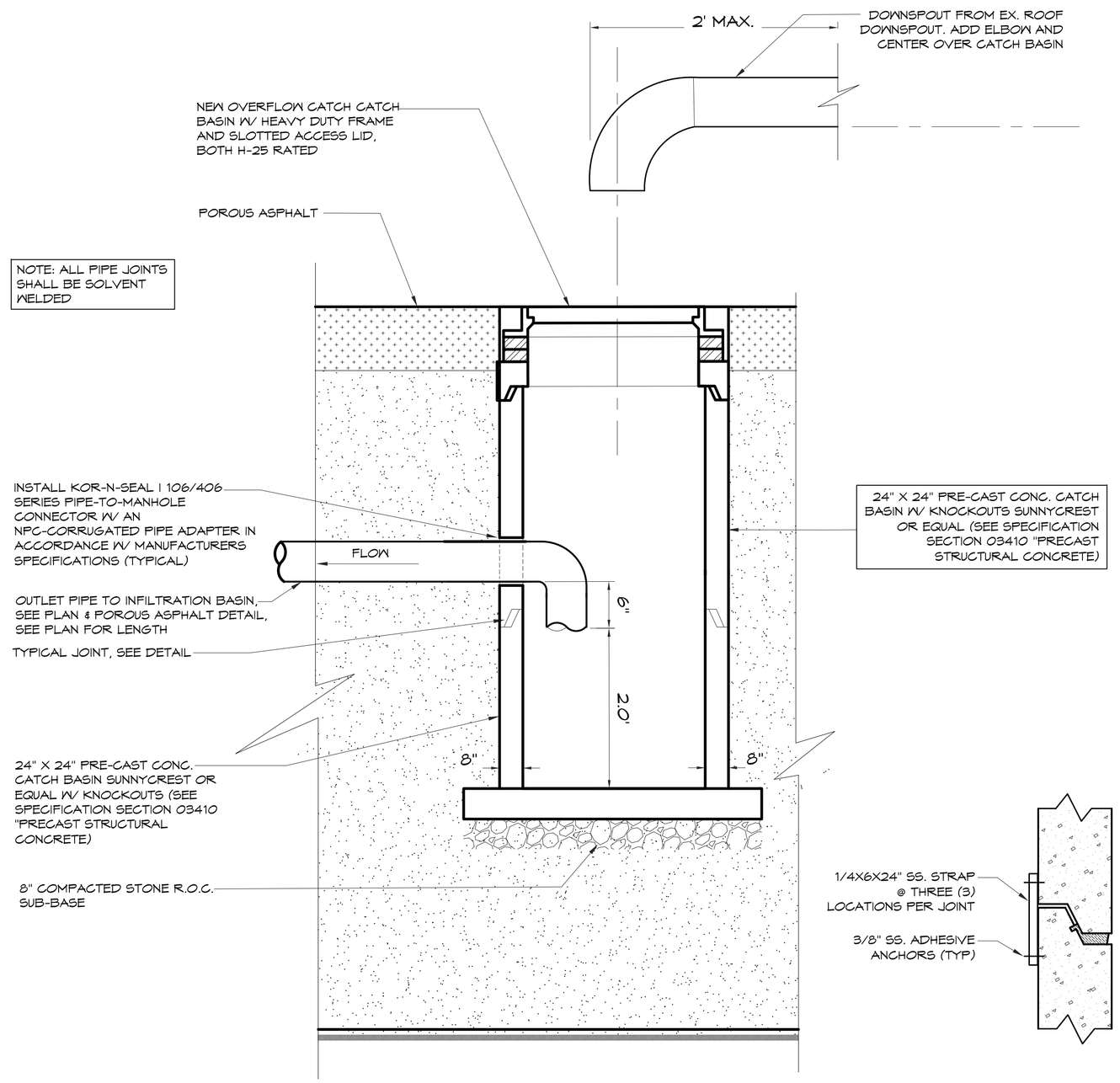
SUNNYCREST 48" I.D. DRYWELL STANDARD PRECAST CONCRETE DRYWELL

SPECIFICATIONS:
MIN. 5000 PSI CONCRETE MEETS ASTM C-890
STEEL MEETS ASTM C-615
MEETS ASTM C 478
TRAFFIC (H20 LOADING)
25% SEEPAGE
188 GAL. PER 24" OF RISE
WEIGHT: 1110 LBS PER 24" RISE

NOTES:
1. ALL SECTIONS REINFORCED PRECAST CONCRETE DESIGNED FOR H-20 LOADING.
2. FRAME AND GRATE - SYRACUSE CASTING #1196 OR APPROVED EQUAL.
3. WRAP STRUCTURE OPENINGS WITH FILTER FABRIC.
4. PLACE/MOUND STONE OVER DRYWELL TO FLUSH WITH RIM.
5. ALL RIMS TO BE SET AT FINISHED GRADES.

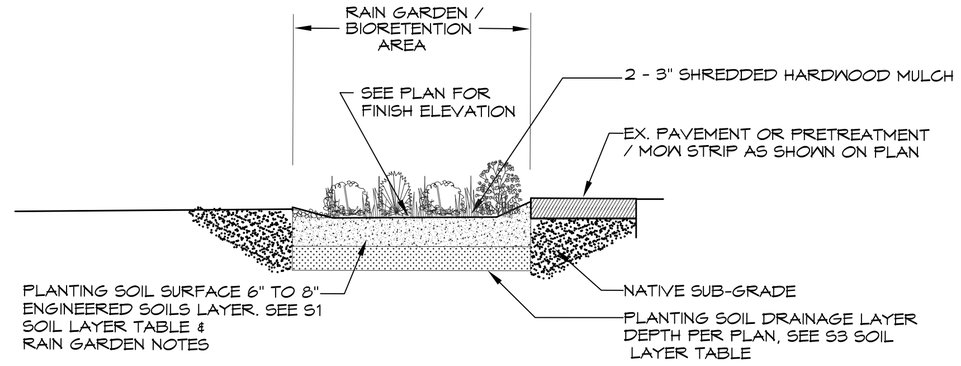
COMBINED DRYWELL / OVERFLOW CATCH BASIN DETAIL

SCALE: NONE



ROOF DRAIN CATCH DETAIL

SCALE: NONE

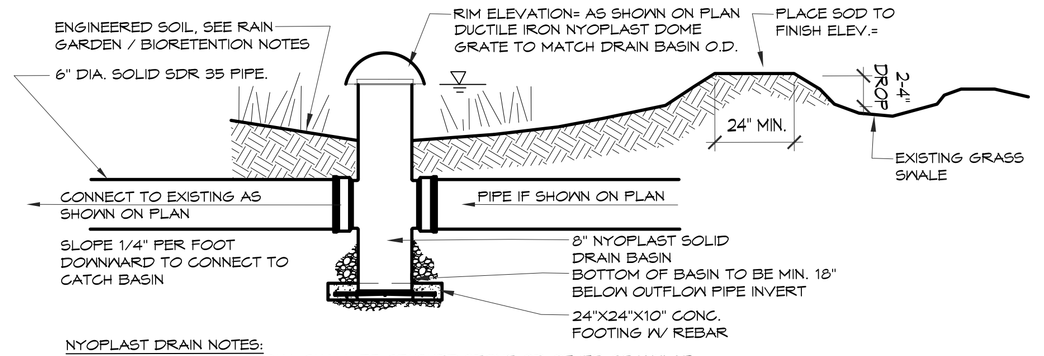


RAIN GARDEN DETAIL

SCALE: NONE

RAIN GARDEN NOTES:

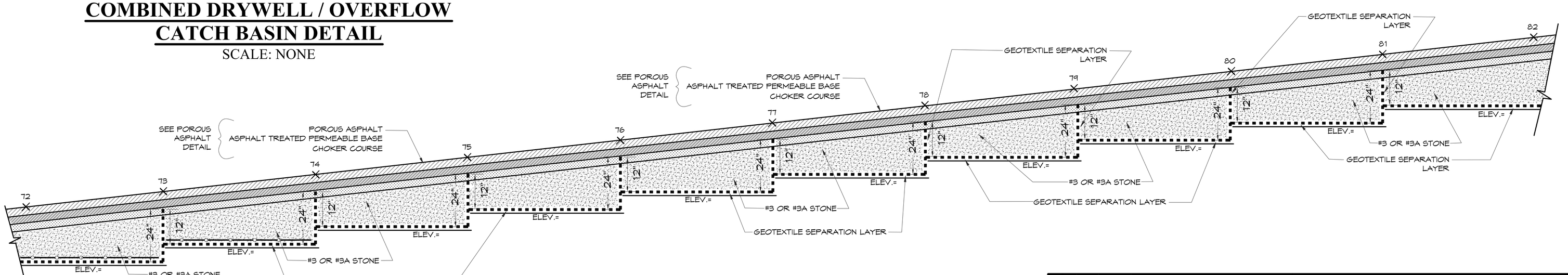
1. PLACEMENT OF THE PLANTING SOIL IN THE PLANTED AREA TO OCCUR IN LIFTS OF 12 INCHES OR LESS AND LIGHTLY COMPACTED. MINIMAL COMPACTION EFFORT CAN BE APPLIED TO THE SOIL BY TAMPING WITH A BUCKET FROM A DOZER OR BACKHOE.
2. THE SITE SHALL BE FREE FROM ALL WEEDS AND INVASIVE PLANT SPECIES.
3. INSTALL ANY SOIL AMENDMENTS INTO THE PLANTED AREA IN SUCH A MANNER AS TO MINIMIZE COMPACTION.
4. FORM BOTTOM AND SIDE SLOPES AS INDICATED
5. USE #1 OR ABOVE NURSERY STOCK SIZE FOR PERENNIALS
6. SPACE PLANT MATERIAL IN ACCORDANCE WITH RECOMMENDED DIMENSIONS. ADJUST SPACING AS NECESSARY TO EVENLY FILL PLANTING BED WITH INDICATED QUANTITY.
7. PLANTS ARE TO BE INSTALLED SO THAT THEIR CROWNS ARE EVEN WITH THE TOP OF THE MULCH AFTER 2"-3" MULCH LAYER IS APPLIED.
8. ADD 2-3" OF DECORATIVE STONE MULCH ON TOP OF THE SOIL.
9. ALL PLANT MATERIAL SHALL BE THOROUGHLY WATERED WITHIN 8 HOURS OF PLANTING.
10. FOR THE FIRST THREE WEEKS AFTER PLANTING, WATER THE PLANTED AREA ONCE PER WEEK IF NO NATURAL RAINFALL HAS OCCURRED.



NYOPLAST DRAIN NOTES:
1 - THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS II MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.
2 - CONCRETE ANTI-FLOTATION FOOTING WITH REBAR REINFORCEMENT (APPROX. 3900 LBS PER CU YD).
3 - SEE DRAWING NO. T001-110-144 FOR COMPLETE DRAIN BASIN DETAILS & SPECIFICATIONS.

RAIN GARDEN OVERFLOW DETAIL

SCALE: NONE



SECTION A--A' POROUS ASPHALT PROFILE

SCALE: NONE

S1 Soil Layer Particle Size Distribution and Composition

Particle Size Class	Passing Sieve No	Range in Percent Passing ASTM F 1632-03
fine gravel	10	95 – 100
very coarse sand	18	90 – 100
coarse sand	35	65 – 85
medium sand	60	30 – 40
fine sand	140	15 – 25
very fine sand	270	9 – 18
silt*		6 – 12
clay*		3 – 6
Chemical		
Organic Matter %	ASTM F 1647-02a	2 – 4%
pH	1:1 water	5.5 – 6.5
EC	1:1 paste	1.5 dS/m
Phosphorous (P)	extract	20 – 100 ppm
Potassium (K)	extract	200 – 600 ppm
Cation Exchange (CEC)	Extract	>8 Meq/100g

*determined by hydrometer method in ASTM F1632-03

S3 Soil Layer Particle Size Distribution and Composition

Particle Size Class	Passing Sieve No	Range in Percent Passing ASTM F 1632-03
fine gravel	10	95 – 100
very coarse sand	18	80 – 95
coarse sand	35	60 - 80
medium sand	60	10 – 40
fine sand	140	8 – 15
very fine sand	270	1 – 10
silt*		1 – 6
clay*		0 – 4
Chemical		
Organic Matter %	ASTM F 1647-02a	<0.25
pH	1:1 Water	4.5 – 7.0

*determined by hydrometer method in ASTM F1632-03.

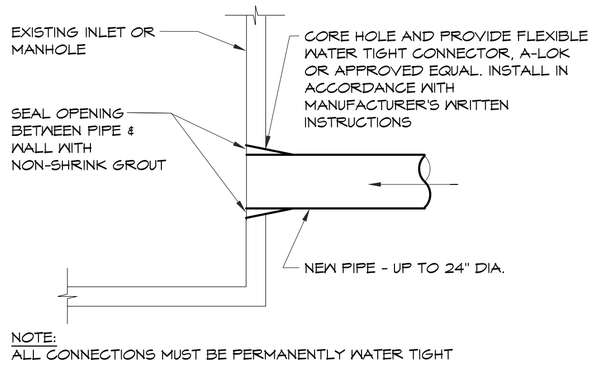
NO.	BY	DATE	DESCRIPTION
1	KET	7.25.19	RESPONSE TO COMMENTS FROM CITY ENGINEERING

REVISION

NATURAL•SYSTEMS ENGINEERING
120 E. WASHINGTON ST., SYRACUSE, NEW YORK 13202, 315-849-3632

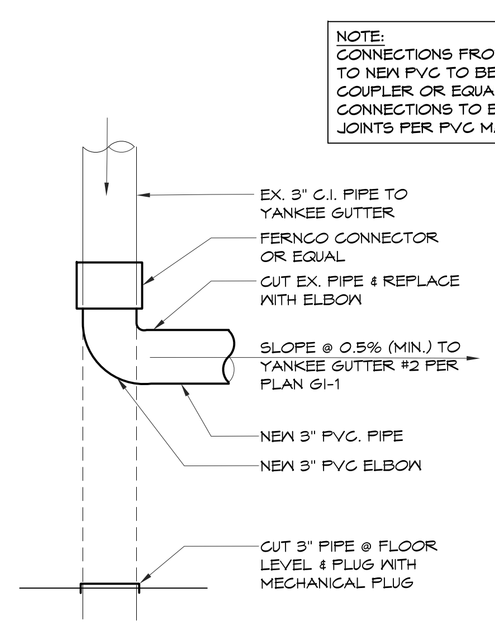
STAMP:

SCALE:	AS NOTED
DATE:	10-22-18
PREPARED BY:	KET
CHECKED BY:	ART
CLIENT:	The Franciscan Church of the Assumption 812 North Salina Street Syracuse, New York
PROJECT:	Assumption Church Green Infrastructure Project (GIF#165) 812 North Salina Street, Syracuse, New York
TITLE:	DETAILS
SHEET NO:	GI-2



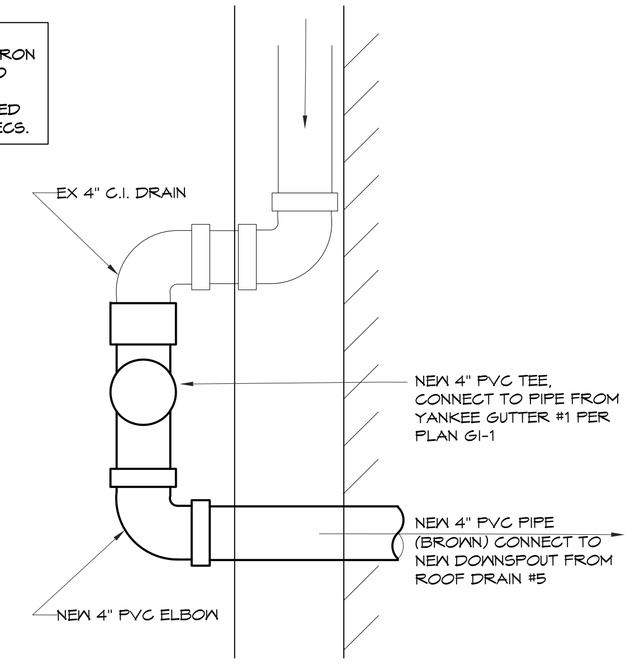
PIPE CONNECTION TO EXISTING STRUCTURE DETAIL

SCALE: NONE



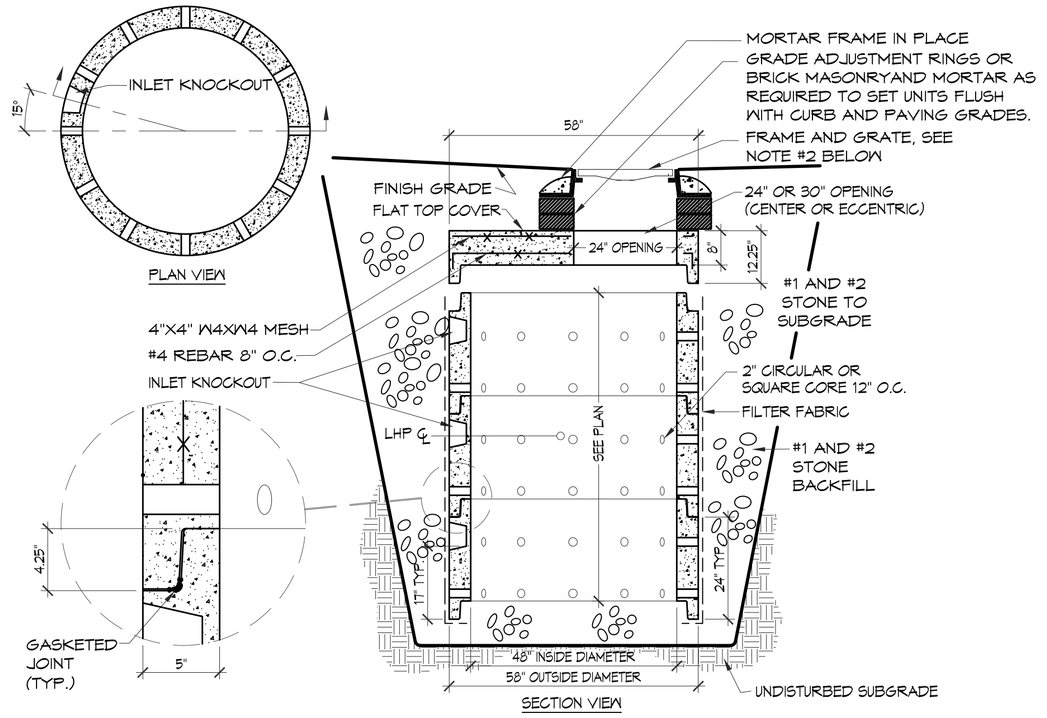
YANKEE GUTTER #1 RETROFIT DETAIL

SCALE: NONE



YANKEE GUTTER #2 RETROFIT DETAIL

SCALE: NONE



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TRAFFIC (H20 LOADING)
25% SEAPAGE
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WEIGHT: 1710 LBS PER 24" RISE

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2. FRAME AND GRATE - SYRACUSE CASTING #1196 OR APPROVED EQUAL.
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4. PLACE/MOUND STONE OVER DRYWELL TO FLUSH WITH RIM.
5. ALL RIMS TO BE SET AT FINISHED GRADES.

DRYWELL DETAIL

SCALE: NONE

No.	BY:	DATE	DESCRIPTION
1	KET	7.25.19	RESPONSE TO COMMENTS FROM CITY ENGINEERING

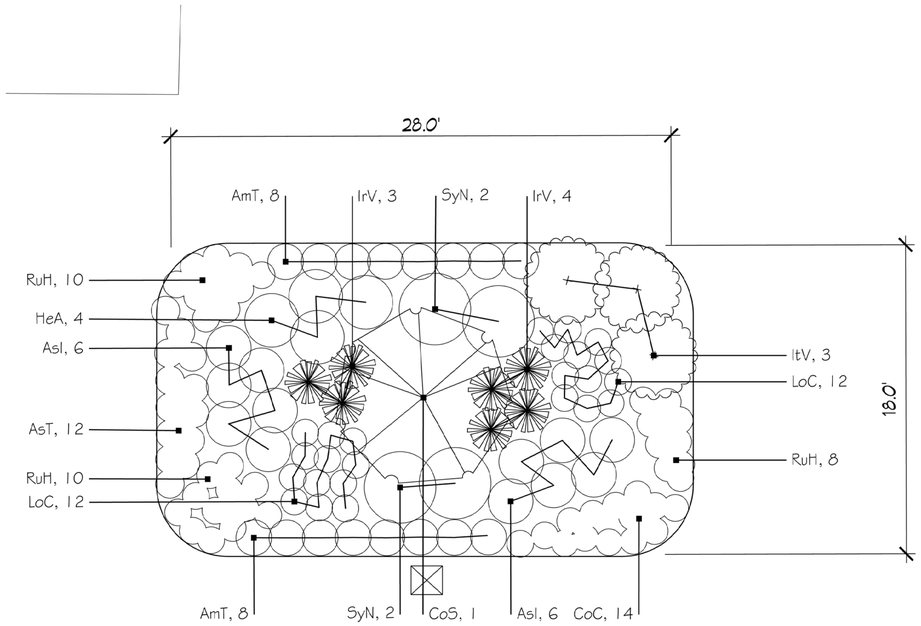
WARNING: (PER SECTION 7209, SUBDIVISION 2, N.Y.S. EDUCATION LAW) IT IS A VIOLATION OF SAID LAW TO ALTER ANY PORTION OF THIS DOCUMENT IN ANY WAY, EXCEPT AS DIRECTED BY A LICENSED PROFESSIONAL ENGINEER. EACH ALTERATION MUST BE SPECIFICALLY DESCRIBED, DATED AND ACCOMPANIED BY THE SEAL AND SIGNATURE

NATURAL•SYSTEMS ENGINEERING
120 E. WASHINGTON ST., SYRACUSE, NEW YORK 13202, 315-849-3632

STAMP:

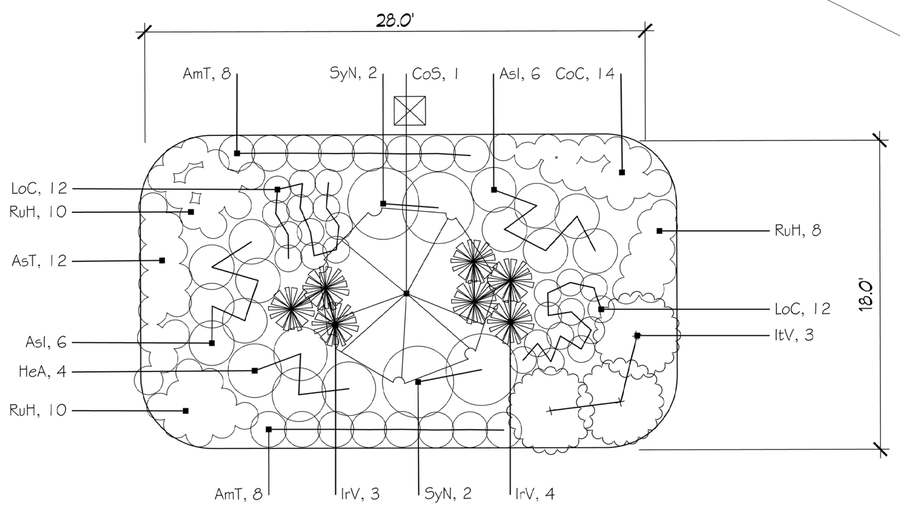
SCALE: AS NOTED
DATE: 10-22-18
PREPARED BY: KET
CHECKED BY: ART

CLIENT: The Franciscan Church of the Assumption, 812 North Salina Street, Syracuse, New York
PROJECT: Assumption Church Green Infrastructure Project (GIF#165), 812 North Salina Street, Syracuse, New York
TITLE: DETAILS
SHEET NO: GI-3



RAIN GARDEN 1 DETAIL

SCALE: NONE



RAIN GARDEN 2 DETAIL

SCALE: NONE

Sym.	Scientific Name	Common Name	Quan.	Bloom Time	Spacing (ft)	
AmT	*Amsonia tabernaemontata*	Eastern Bluestar	16x2	Apr-May	2.0	
AsI	*Asclepias incarnata*	Swamp Milkweed	12x2	Jun-Jul	2.5	
AsT	*Asclepias tuberosa*	Butterflyweed	12x2	Jun-Jul	1.5	
CoC	*Conoclinium coelestinum*	Blue Mistflower	14x2	Jul-Oct	1.5	
CoS	*Cornus sericea 'Cardinal'*	Red Osier Dogwood 'Cardinal'	1x2	May -Jun	10.0	
HeA	*Helenium autumnale*	Sneezeweed	4x2	Jul-Aug	3.0	
IrV	*Iris versicolor*	Blue Flag Iris	7x2	May-Jun	2.5	
ItV	*Itea virginica*	Virginia Sweetspire	3x2	May-Jun	6.0	
LoC	*Lobelia cardinalis*	Cardinal Flower	24x2	Aug-Sep	1.5	
RuH	*Rudbeckia hirta*	Black-Eyed Susan	28x2	Jul-Sep	1.5	
SyN	*Symphyotrichum novae-angliae*	New England Aster	4x2	Aug-Oct	4.0	

Table 3a: Rain Garden 1 Stormwater Retention Calculations - 812 N. Salina St. (GIF #165).

Rain Garden Area	510	sq ft
Total impervious contributing area	5,787	sq ft
Stormwater Mitigation:		
Rain Garden		
Depth of design event	1.00	in
Runoff Volume from design event	482	cu ft
Ponding depth	6	in
Depth of soil media:	30	in
Bioretention soil porosity	20%	
Maximum stormwater retention:	510	cu ft

Table 3b: Rain Garden 2 Stormwater Retention Calculations - 812 N. Salina St. (GIF #165).

Rain Garden Area	510	sq ft
Total impervious contributing area	2,069	sq ft
Stormwater Mitigation:		
Rain Garden		
Depth of design event	1.00	in
Runoff Volume from design event	172	cu ft
Ponding depth	6	in
Depth of soil media:	12	in
Bioretention soil porosity	20%	
Maximum stormwater retention:	357	cu ft

REVISIONS

No.	BY	DATE	DESCRIPTION
1	KET	5.8.18	RESPONSE TO COMMENTS FROM CITY ENGINEERING

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NATURAL•SYSTEMS ENGINEERING
120 E. WASHINGTON ST., SYRACUSE, NEW YORK 13202, 315-849-3632

STAMP:

SCALE: AS NOTED

DATE: 10-22-18

PREPARED BY: KET

CHECKED BY: ART

CLIENT: The Franciscan Church of the Assumption, 812 North Salina Street, Syracuse, New York

PROJECT: Assumption Church Green Infrastructure Project (GIF#165), 812 North Salina Street, Syracuse, New York

TITLE: RAIN GARDEN DETAILS

SHEET NO: GI-4

Photograph 1: View of north side of church. Two representative downspouts are visible, which will be directed to new catch basins located adjacent to the building.

Photograph 2: Area of prospective rain garden (north)

Photograph 3: Area of prospective rain garden (north)

Photograph 4: View of Assumption lot, galvanized guardrails in foreground.