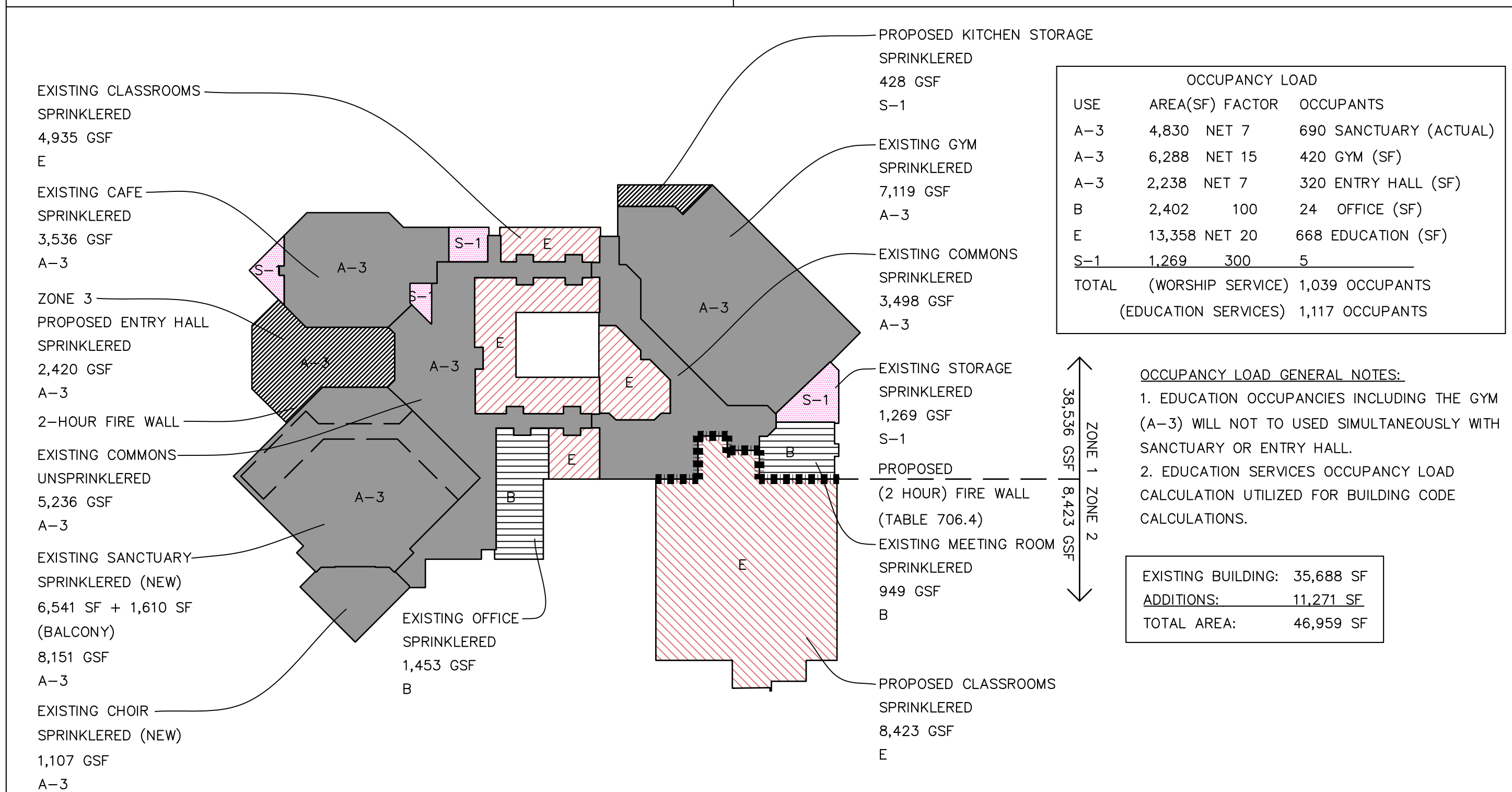


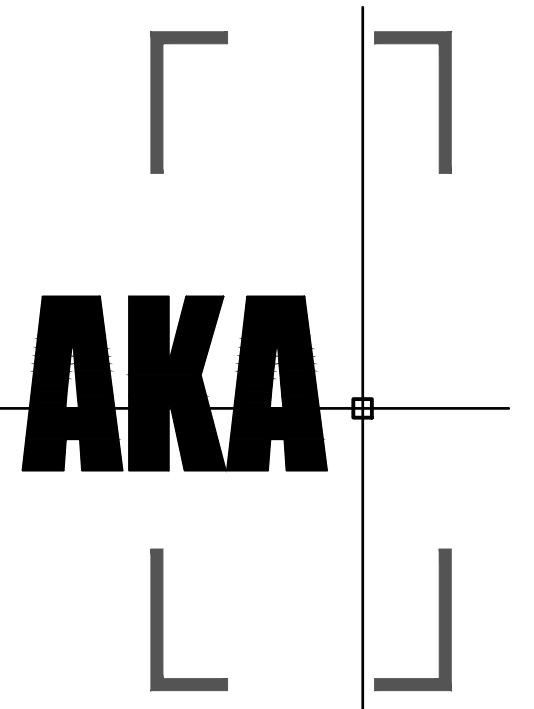
BUILDING DATA	PROJECT DATA																																																																								
<p>1. CODE COMPLIANCE 2015 MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS 2015 MICHIGAN BUILDING CODE 2015 MICHIGAN ENERGY CODE MBC 2015 CHAPTER 13 & MEC 2015 - CHAPTERS 1 THROUGH 6 & MICHIGAN ENERGY CODE, PART 10A. RULES (ANSI/ASHRAE/IES STANDARD 90.1-2013) 2015 MICHIGAN MECHANICAL CODE 2015 INTERNATIONAL FUEL GAS CODE 2015 MICHIGAN PLUMBING CODE 2017 MICHIGAN ELECTRICAL CODE (NEC 2017) 2017 NATIONAL ELECTRICAL CODE WITH PART 8 AMENDMENTS 2015 INTERNATIONAL FIRE CODE ICC A117.1-2009</p> <p>2. USE & OCCUPANCY CLASSIFICATION MBC CHAPTER 3 A-3 (PRIMARY) B, E, S-2 NONSEPARATED OCCUPANCY</p> <p>3. CONSTRUCTION TYPE MBC CHAPTER 6 CONSTRUCTION TYPE - 5A EXISTING & PROPOSED</p> <p>4. FIRE SUPPRESSION MBC 903 FULLY SUPPRESSED</p> <p>5. FIRE ALARMS MBC 907</p> <p>6. ALLOWABLE BUILDING HEIGHT AND AREAS MBC TABLES 503.4 & 506.2 ALLOWABLE A-3 (SUPPRESSED): 70' 3-STORIES, SI-46,000 S.F. ACTUAL A-3 (SUPPRESSED): >70' 1-STORY W/PARTIAL BALCONY. FIRE AREA 1 = 38,536 SF > ALLOWABLE 54,625 (W/AREA INCREASE)</p> <p>7. ALLOWABLE AREA INCREASE GREATER THAN 30' PROVIDED AROUND BUILDING PERIMETER NS 11,500 X [(1.0-0.25) 30'/30] = 8,625 SF ALLOWABLE AREA INCREASE</p> <p>8. OCCUPANT LOAD MBC 1004.1, 1004.4, 1004.6 TABLE 1004.1.2 SEE CHART BELOW</p> <p>9. EXIT ACCESS & NUMBER OF EXITS MBC 1006 TABLE 1006.2.1, TABLE 1006.3.1, 1017.2 EGRESS WIDTH (1005.1): REQUIRED DOORS = 1,117 OCCUPANTS X 0.20" PER OCCUPANT = 223.4" REQUIRED 432" PROVIDED</p> <p>COMMON PATH OF EGRESS TRAVEL (1006.2.1, TABLE 1006.2.1): 75 FT. MAX. W/ SPRINKLERS</p> <p>NUMBER OF EXITS (1006, TABLE 1006.3.1): OCCUPANT LOAD MORE THAN 1,000 = MIN. 4 REQUIRED; MIN. 4 PROVIDED</p> <p>EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2) A-3 OCCUPANCIES W/ SPRINKLER = 250 FT. MAX. FROM MOST REMOTE POINT</p> <p>10. REQUIRED FIRE RESISTANCE OF BUILDING ELEMENTS MBC 508, CHAPTER 7, 1022, 1022.30056.4 AND TABLE 601 TYPE 5B CONSTRUCTION PRIMARY STRUCTURAL FRAME 0 HRS. BEARING WALLS EXTERIOR 0 HRS. INTERIOR 0 HRS. NON-BEARING WALLS & PARTITIONS 0 HRS. FLOOR CONSTRUCTION & SECONDARY MEMBERS 0 HRS. ROOF CONSTRUCTION & SECONDARY MEMBERS 0 HRS.</p>	<p>PROJECT: FIRST BAPTIST CHURCH OF ROCHESTER DESCRIPTION: ADDITION OF ENTRYWAY AND MEETING ROOMS AS WELL AS ACCESSIBILITY IMPROVEMENTS TO EXISTING RESTROOMS AND WORSHIP PLATFORM.</p> <p>11. PROTECTION OF OPENINGS DUE TO LOCATION ON PROPERTY OR MAX. AREA OF EXTERIOR WALL OPENINGS MBC 705.8, TABLE 705.8 >20' (SPRINKLERED) = NO LIMIT, NOT REQUIRED</p> <p>12. SPACES REQUIRING FIRE RESISTANCE RATING SEPARATION MBC 419, 420, 508.2.4, 508.3, TABLE 509, AND TABLE 508.4 N/A</p> <p>13. ROOF COVERING MATERIAL MBC TABLE 1505.1 CLASS C ROOF ASSEMBLY</p> <p>14. FIRE RESISTANCE RATING FOR EXTERIOR WALLS BASED ON DISTANCE MBC TABLE 602 A-3 OCCUPANCY; 5A CONSTRUCTION < 30' = 1 HR. REQUIRED.</p> <p>15. REQUIRED PLUMBING FIXTURES MPC 403 TABLE 403.1 A-3 OCCUPANCY: WATER CLOSETS MALE: 559/150 = 4 REQ'D, 10 PROVIDED FEMALE: 559/75 = 7 REQ'D, 8 PROVIDED LAVATORIES: MALE: 559/200 = 3 REQ'D, 5 PROVIDED FEMALE: 559/200 = 3 REQ'D, 6 PROVIDED FAMILY RESTROOM: 1 WATER CLOSET + 1 LAVATORY PROVIDED DRINKING FOUNTAIN: 2 REQ'D, 2 PROVIDED SERVICE SINK: 1 REQ'D, 1 PROVIDED</p> <p>16. 2015 MICHIGAN UNIFORM ENERGY CODE (CHAPTER 5) & ANSI/ASHRAE/ESNA STANDARD 90.1-2013 BUILDING ENVELOPE REQUIREMENTS FOR CLIMATE ZONE 5 (TABLE 5.5-5)</p> <table border="1"> <thead> <tr> <th></th> <th>INSULATION MIN. R-VALUE</th> <th>ASSEMBLY MAXIMUM</th> </tr> </thead> <tbody> <tr> <td>ROOFS</td> <td></td> <td></td> </tr> <tr> <td>ABOVE DECK</td> <td>R-30.0 C.I.</td> <td>U-0.032</td> </tr> <tr> <td>METAL BUILDING</td> <td>R-19.0 + R-11 Ls OR R-25 + R-8 Ls R-49.0</td> <td>U-0.037 U-0.021</td> </tr> <tr> <td>ATTIC AND OTHER</td> <td></td> <td></td> </tr> <tr> <td>WALLS, ABOVE-GRADE</td> <td></td> <td></td> </tr> <tr> <td>MASS</td> <td>R-11.4 C.I.</td> <td>U-0.090</td> </tr> <tr> <td>METAL BUILDING</td> <td>R-0 + R-19 C.I.</td> <td>U-0.050</td> </tr> <tr> <td>STEEL-FRAMED</td> <td>R-13 + R-10 C.I.</td> <td>U-0.055</td> </tr> <tr> <td>WOOD-FRAMED AND OTHER</td> <td>R-13 + R-7.5 C.I. 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Construction Manager



100 W Long Lake Rd #200
 Bloomfield Hills, MI 48304
 voice 248-586-4130



AUGER KLEIN ALLER
 ARCHITECTS INC.

303 E. THIRD STREET SUITE 100
 ROCHESTER, MI 48307
 248.814.9160
 WWW.AKA-ARCHITECTS.NET

Civil Engineer



101 N. Washington
 Oxford, MI 48371
 voice 248-877-2102



03.03.2021

City of Rochester Hills Site Plan Re-Submittal

Project

First Baptist Church of Rochester

6377 Orion Rd.
 Rochester Hills, Michigan 48306

AKA Architects Inc. Project Number 1822.00
 City of Rochester Hills File No. 20-028



Location Map
 No Scale

DATE	REVISION	DESCRIPTION
03.03.2021	R.H. Plan Review	
01.05.2021	R.H. Plan Review	
08.21.2020	R.H. Plan Review	

SHEET INDEX

Sheet No. Sheet Description

□ □ □ Drawing Issued
 □ □ □ For Reference Only
 □ □ □ A.C.V.R Cover Sheet

CIVIL-SITE

□ □ □ C-1 Existing Conditions
 □ □ □ C-2 Site Plan
 □ □ □ C-3 Grading Plan

ARCHITECTURAL

□ □ □ ASP-1 Architectural Site Plan
 □ □ □ ASP-2 Architectural Site Plan Details
 □ □ □ 1 of 1 Exterior Photometric Plan
 □ □ □ SD.100 Overall Floor Plan - Existing & New
 □ □ □ SD.201 Proposed Exterior Elevations
 □ □ □ SD.202 Proposed Entry Section
 □ □ □ SD.203 Exterior & Interior Perspectives

District	SETBACKS:				
	Front	Least One Side	Total Two Sides	Rear	
REQ'D	30'	10'	20'	35'	
ACTUAL	40'	15'	30'	-	

LOCATION:			
LOCATION	EXISTING PROVIDED	PROPOSED ADDITIONAL	TOTAL PROVIDED
SEATING CAPACITY OF CHURCH = 638 SEATS = 1 CAR PER 3 SEATS			212 SPACES REQ'D.
EXISTING	239 SPACES		239 SPACES
NEW SPACES		24 SPACES	24 SPACES
RELIGIOUS INSTITUTION			263 SPACES
TOTAL PARKING PROVIDED FOR SITE			263 SPACES
BARRIER FREE PARKING TO INCLUDE 4 + (2.33% x 264) = 10 SPACES			13 SPACES

GENERAL NOTES

- Site is currently zoned R-1: One-family Residential District. As a religious institution, this project complies with Article 4 - Zoning Districts and Permitted Uses.
- Site layout & topography is based on a professional survey which is included as part of this package. Refer to sheet C-1.
- Classroom addition is used for religious instruction only. Use will be primarily on Wednesday's and Sunday's.
- Outside storage of any materials, supplies, equipment or similar items excluding that which is to be specifically used for construction of the proposed development is prohibited.
- This site does not involve equipment with the potential of emitting air contaminants such as smoke, open fire, gasses, or noises.
- Hazardous materials do not exist, nor are they stored on this site.
- This site has been prepared in accordance with the provisions in the wetlands protection ordinances and as such shall not pollute, impair or destroy wetlands as no wetlands exist on the site.
- Existing trees to remain to be protected by snow fencing placed outside of the drip line of tree prior to construction.

- All new utility lines shall be buried underground.
- Final number and location of fire lane signage and fire hydrants shall be coordinated with the City of Rochester Hills Fire Department.
- Work permitted only during the hours of 7a-8p Monday through Saturday, Sunday and holiday work, without special written permission from the Mayor is prohibited by City Ordinance.
- All site lighting shall conform to local codes and ordinances. Exterior lighting shall be fully shielded and directed downward to prevent off-site glare. Site illumination shall not exceed 1.0 foot-candle along property lines. Parking lot illumination shall average 3.0 foot-candles over the entire area measured five (5) feet above surface.
- All Building setbacks are measured in feet from Primary face of the structure and do not include patios or overhangs.

PARKING

- All spaces provided 10' x 18' typical.
- All physically Handicapped (P.H.) spaces provided 11' x 18' typ. w/ 5' wide access aisles.
- All drive aisles 24' minimum for 2-way traffic.
- Peak parking hours of existing building and proposed additions are on weekends between 7a-6p.

EXISTING LAND USE AREAS

Total Gross Site Area 13 Acres

DEVIATIONS FROM ORDINANCE

None

LANDSCAPE REQUIREMENTS

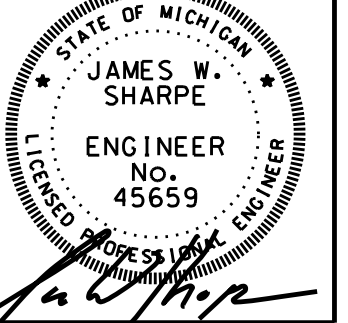
- Proposed plans indicate the removal of 4-3" Pear trees, 1 6" Pine tree, 1 12" Pine Tree, and 1 12" Maple Tree. See drawing C.2 for tree replacement calculation.
- No planting of a tree or shrub is proposed on Public ROW trees or shrubs are proposed within 15' from curb or curb edge. Shade trees and shrubs will be planted >5' from public walkway. Evergreen & ornamental trees will be planted > 10' from edge of public walkway. No trees or shrubs are proposed within triangular area formed at intersection of any street right of way lines at a distance along each line of 25' from point of intersection. No trees or shrubs are proposed to be planted in the triangular area formed at the intersection of any driveway with a public walkway at a distance along each line of 15' from their point of intersection. All trees and shrubs will be planted >10' away from fire hydrants. Shade and evergreen trees must be >15' away from overhead lines. Trees must be planted min. 5' from underground utility. Prior to release of Performance Bond the City of Rochester Hills Forestry Unit will inspect all trees, existing and planted to identify any pose a hazard to safe use of public ROW. Forestry may require removal or replace any such hazards. These requirements are incorporated into these plans.
- Regulated trees shall be protected from damage with protective fencing during construction and there will be no construction or development activity with the drip-line. See detail 5/ASP.2.
- Specimen Trees: 1 12" maple tree will need to be removed for this project. Per CRH 126-397 this specimen tree is less than 18" DBH therefore does not meet replacement requirements.

DATE	REVISION	BY	REASON
03/05/21	REVISED SITE PLAN PER REVIEW LETTER DATED 01/08/20		
03/03/21	REVISED SITE PLAN PER REVIEW LETTER DATED 07/29/21		

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 800-482-7171 OR 811
 CONTACT THE MISS DIG SYSTEM 3 WORKING DAYS IN ADVANCE

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JAMES W. SHARPE
 PROFESSIONAL ENGINEER
 No. 45659

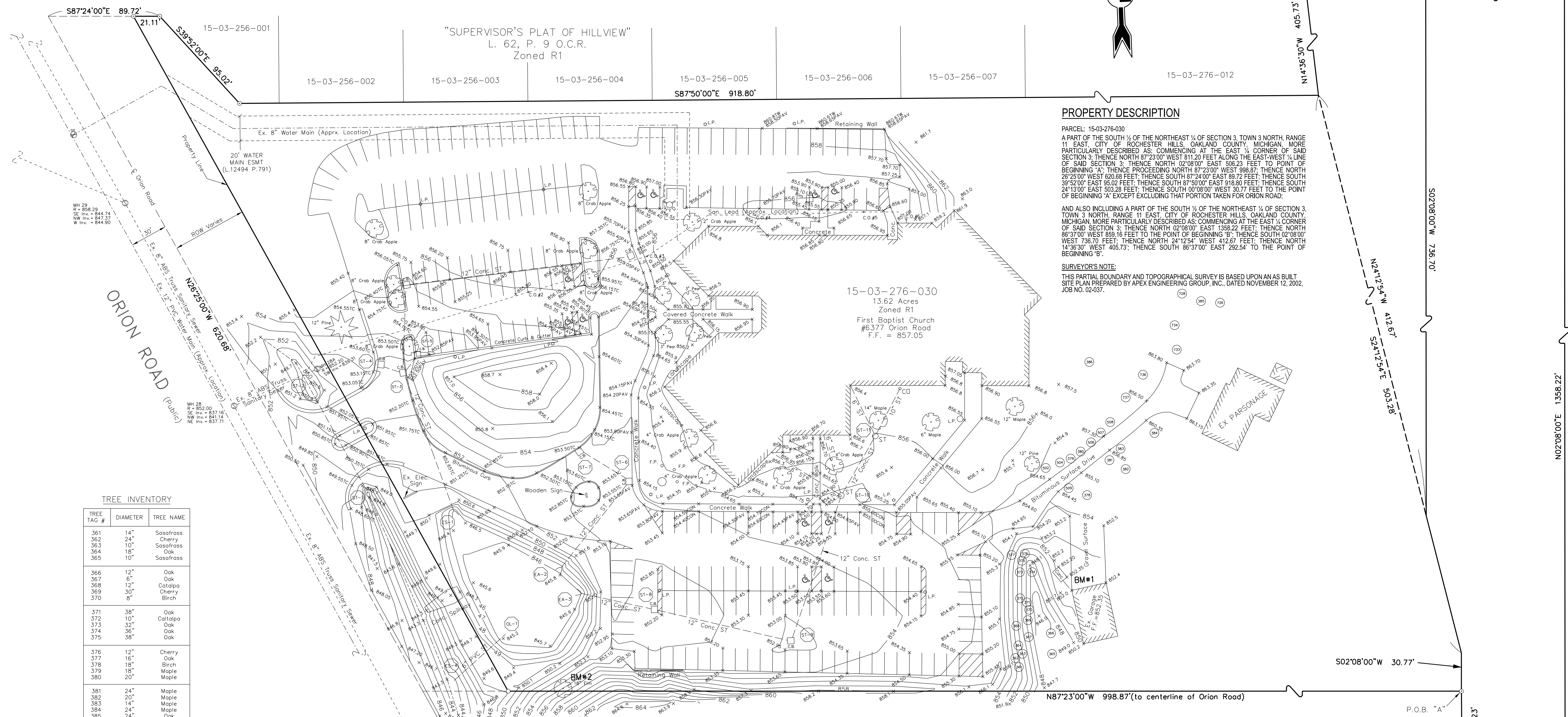


DEVELOPED FOR:
FIRST BAPTIST CHURCH OF ROCHESTER
 6377 ORION RD
 ROCHESTER HILLS, MI 48306
 248.652.6151

EXISTING CONDITIONS
 FIRST BAPTIST CHURCH OF ROCHESTER

PLAN NAME:
CITY: ROCHESTER HILLS
COUNTY: OAKLAND
SECTION: 3
T-3-N, R-11-E

INITIAL SUBMITTAL: 01/05/21
 THIS SUBMITTAL: 03/03/21
 SCALE: 1" = 40'
 SHEET: C-1
 PROJECT: 004.15.01



PROPERTY DESCRIPTION

PARCEL: 15-03-276-030
 A PART OF THE SOUTH 1/2 OF THE NORTHEAST 1/4 OF SECTION 3, TOWN 3 NORTH, RANGE 11 EAST, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN, MORE PARTICULARLY DESCRIBED AS: COMMENCING AT THE EAST 1/4 CORNER OF SAID SECTION 3; THENCE NORTH 87°23'00" WEST 811.20 FEET ALONG THE EAST-WEST 1/4 LINE OF SAID SECTION 3; THENCE NORTH 02°08'00" EAST 306.23 FEET TO POINT OF BEGINNING 'A'; THENCE PROCEEDING NORTH 87°23'00" WEST 388.87; THENCE NORTH 26°25'00" WEST 620.88 FEET; THENCE SOUTH 87°24'00" EAST 89.72 FEET; THENCE SOUTH 39°52'00" EAST 95.02 FEET; THENCE SOUTH 87°50'00" EAST 918.80 FEET; THENCE SOUTH 24°13'00" EAST 603.28 FEET; THENCE SOUTH 00°08'00" WEST 30.77 FEET TO THE POINT OF BEGINNING 'A' EXCEPT EXCLUDING THAT PORTION TAKEN FOR ORION ROAD;

AND ALSO INCLUDING A PART OF THE SOUTH 1/2 OF THE NORTHEAST 1/4 OF SECTION 3, TOWN 3 NORTH, RANGE 11 EAST, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN, MORE PARTICULARLY DESCRIBED AS: COMMENCING AT THE EAST 1/4 CORNER OF SAID SECTION 3; THENCE NORTH 02°08'00" EAST 1356.22 FEET; THENCE NORTH 86°37'00" WEST 859.16 FEET TO THE POINT OF BEGINNING 'B'; THENCE SOUTH 02°08'00" WEST 736.70 FEET; THENCE NORTH 24°12'54" WEST 412.67 FEET; THENCE NORTH 14°36'30" WEST 405.73; THENCE SOUTH 86°37'00" EAST 292.54' TO THE POINT OF BEGINNING 'B'.

SURVEYOR'S NOTE:
 THIS PARTIAL BOUNDARY AND TOPOGRAPHICAL SURVEY IS BASED UPON AN AS BUILT SITE PLAN PREPARED BY APEX ENGINEERING GROUP, INC., DATED NOVEMBER 12, 2002, JOB NO. 02-037.

TREE INVENTORY

TREE TAG #	DIAMETER	TREE NAME
361	14"	Sassafras
362	24"	Cherry
363	10"	Sassafras
364	18"	Oak
365	10"	Sassafras
366	12"	Oak
367	6"	Oak
368	12"	Catalpa
369	30"	Cherry
370	8"	Birch
371	38"	Oak
372	10"	Catalpa
373	32"	Oak
374	36"	Oak
375	38"	Oak
376	12"	Cherry
377	16"	Oak
378	18"	Birch
379	18"	Maple
380	20"	Maple
381	24"	Maple
382	20"	Maple
383	14"	Maple
384	24"	Maple
385	24"	Oak
386	30"	Oak
502	40"	Maple
504	14"	Maple
506	10"	Maple
507	12"	Maple
508	16"	Maple
509	22"	Maple
726	22"	Box Elder
728	22"	Maple
733	12"	Pine
734	28"	Pine
736	14"	Maple
737	20"	Maple

BENCHMARKS

- BM #1 - FINISH FLOOR OF EXISTING GARAGE
ELEV. + 852.35 (NAVD 88)
- BM #2 - SET MAG NAIL NORTH FACE 18" ELM
ELEV. + 856.35 (NAVD 88)

TOPOGRAPHIC SURVEY PROVIDED BY:
 Kennedy Surveying, Inc.
 105 N. Washington St.
 Oxford, MI 48371
 248.628.4241

JOB NUMBER: 20-83182
DATED: November 24, 2020

EXISTING STRUCTURE SCHEDULE

ES-1	12" Conc. W/ Conc. Headwall W Inv.=846.30	ES-2	12" Conc. W/ Conc. Headwall W Inv.=846.55	ES-3	12" Conc. W/ Conc. Headwall W Inv.=846.00	ES-4	6" PVC E Inv.=843.70	ES-5	12" Conc. W/ 2" Restrictor N Inv.=844.90	ES-6	15" CSP N Inv.=844.40	ES-7	15" CSP S Inv.=847.95	ES-8	12" Conc. SW Inv.=848.15 12" Conc. NW Inv.=848.15 12" Conc. NE Inv.=848.15 12" Conc. N Inv.=848.15	ES-9	6" PVC NW Inv.=851.10 6" PVC N Inv.=851.90	ES-10	Storm Structure Rim=852.60 12" Conc. SE Inv.=849.00	ES-11	Storm Structure Rim=852.50 12" Conc. SW Inv.=849.00	ES-12	Storm Structure Rim=853.60 12" Conc. SW Inv.=849.80 12" Conc. NW Inv.=849.85	ES-13	Storm Structure Rim=853.20 12" Conc. SE Inv.=850.20	ES-14	Storm Structure Rim=852.22 12" Conc. W Inv.=847.20 12" Conc. SE Inv.=847.20	ES-15	Storm Structure Rim=852.45 12" Conc. NW Inv.=849.50 12" Conc. NE Inv.=849.60	ES-16	Storm Structure Rim=854.70 12" Conc. SW Inv.=849.90 12" Conc. NE Inv.=850.10 6" PVC NW Inv.=851.10 6" PVC N Inv.=851.90	ES-17	Storm Structure Rim=855.95 12" Conc. SW Inv.=850.50 10" PVC NE Inv.=850.50 6" PVC NW Inv.=853.45
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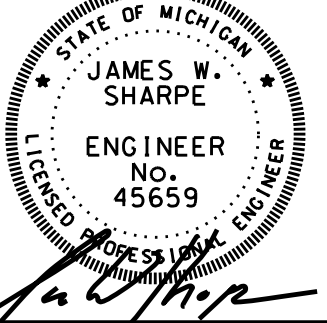
- 854.85 x = EXISTING ELEVATION
- BM = BENCH MARK
- = FND. 1/2" IRON ROD W/ CAP
- = SET 1/2" IRON ROD W/ ID CAP
- ⊙ = FND. 4" CONC. MONUMENT W/ 1/2" IRON ROD
- F.P. ○ = EX. FLAG POLE
- L.P. ○ = EX. LIGHT POLE
- ⊗ = EX. SANITARY SEWER MANHOLE
- ⊙ = EX. STORM SEWER STRUCTURE
- ⊠ = EX. FATCH BASIN
- ⊠ = EX. FIRE HYDRANT
- ⊙ = EX. TREE

DATE	REVISION	BY	REASON
03/03/21	REVISED SITE PLAN PER REVIEW LETTER DATED 01/29/21		
03/03/21	REVISED SITE PLAN PER REVIEW LETTER DATED 01/29/21		

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JAMES W. SHARPE
PROFESSIONAL ENGINEER
NO. 45659



DEVELOPED FOR:
FIRST BAPTIST CHURCH OF ROCHESTER
6377 ORION RD
ROCHESTER HILLS, MI 48306
248.652.6151

PLAN NAME:
SITE PLAN
FIRST BAPTIST CHURCH OF ROCHESTER

CITY: ROCHESTER HILLS
COUNTY: OAKLAND
SECTION: 3
T-3-N, R-11-E

INITIAL SUBMITTAL: 01/05/21
THIS SUBMITTAL: 03/03/21
SCALE: 1" = 40'
SHEET: C-2
PROJECT: 004.15.01

PROJECT DESCRIPTION

THIS PROJECT WILL CONSIST OF THREE NEW BUILDING ADDITIONS, A PLAYGROUND AREA, AND TWENTY-FOUR NEW PARKING SPACES. THE 428 SQUARE FOOT ADDITION IS PROPOSED AT THE NORTH SIDE OF THE CHURCH AND WILL BE A KITCHEN STORAGE ROOM. THE 8,423 SQUARE FOOT ADDITION IS PROPOSED AT THE SOUTH SIDE OF THE CHURCH AND WILL CONSIST OF CLASSROOMS. THE 2,420 SQUARE FOOT ADDITION IS PROPOSED AT THE WEST SIDE OF THE CHURCH AND WILL BE AN ENTRANCE HALL. THE NEW STRUCTURES WILL BE CONSTRUCTED TO MATCH THE EXISTING BUILDING AS CLOSE AS POSSIBLE.

ZONING INFORMATION

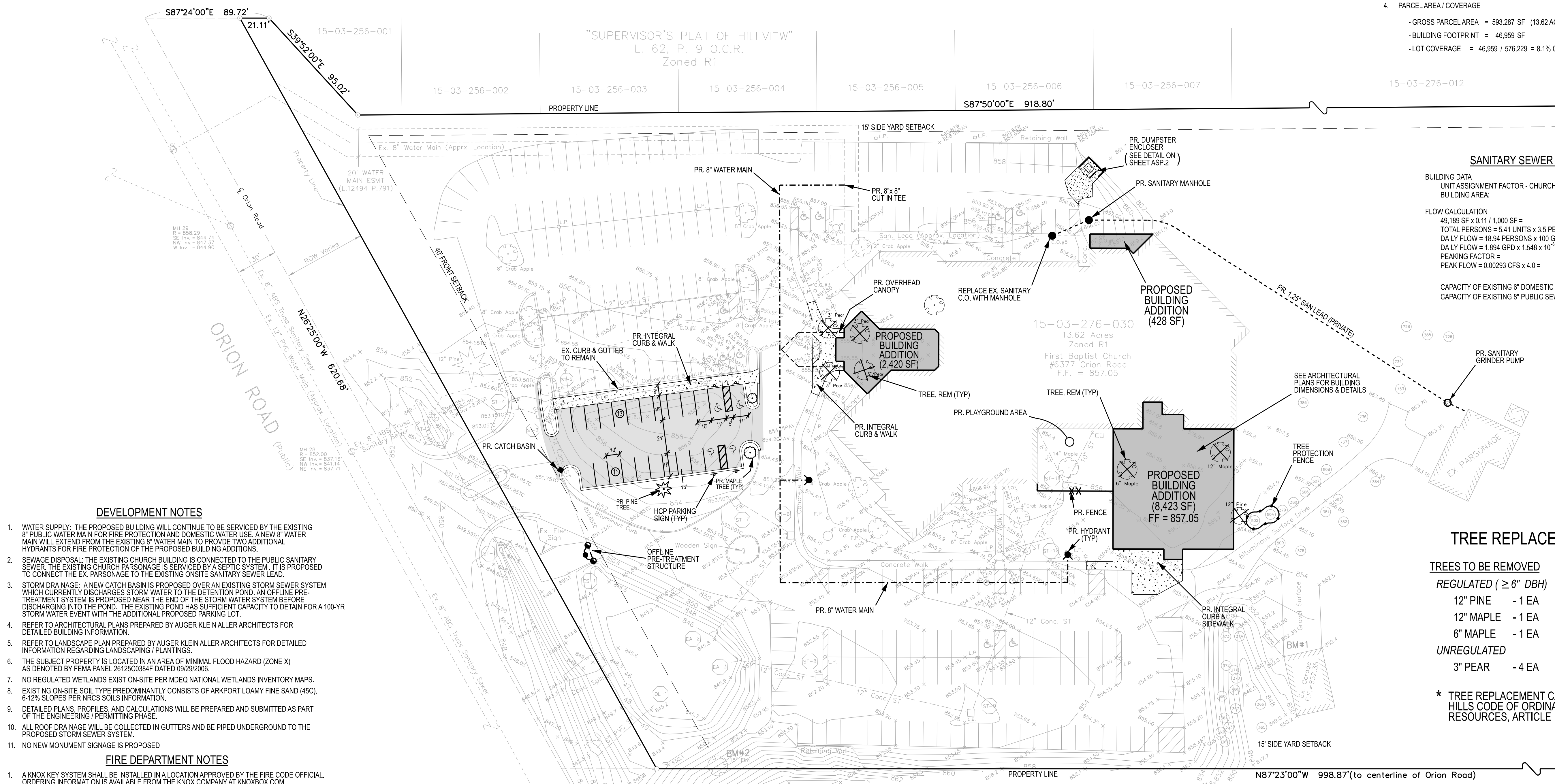
1. PARCEL: 15-03-276-030
2. ZONING: R-1 (RESIDENTIAL)
3. SETBACKS
- FRONT: 40'
- REAR: 35'
- SIDE: 15'
4. PARCEL AREA / COVERAGE
- GROSS PARCEL AREA = 593,287 SF (13.62 AC)
- BUILDING FOOTPRINT = 46,959 SF
- LOT COVERAGE = 46,959 / 576,229 = 8.1% COVERAGE



"SUPERVISOR'S PLAT OF HILLVIEW"
L. 62, P. 9 O.C.R.
Zoned R1

SANITARY SEWER BASIS OF DESIGN

BUILDING DATA	UNIT ASSIGNMENT FACTOR - CHURCHES:	0.11 / 1,000 SF
BUILDING AREA:	46,959 SF + 2,230 SF = 49,189 SF	
FLOW CALCULATION		
49,189 SF x 0.11 / 1,000 SF =	5.41 UNITS	
TOTAL PERSONS = 5.41 UNITS x 3.5 PERSONS / UNIT =	18.94 PERSONS	
DAILY FLOW = 18.94 PERSONS x 100 GPD / PERSON =	1,894 GPD	
DAILY FLOW = 1,894 GPD x 1.548 x 10 ⁻⁶ CFS / GPD =	0.0029 CFS	
PEAKING FACTOR =	4.0	
PEAK FLOW = 0.00293 CFS x 4.0 =	0.012 CFS	
CAPACITY OF EXISTING 6" DOMESTIC LEAD @ 1.00% =	0.56 CFS	
CAPACITY OF EXISTING 8" PUBLIC SEWER @ 2.00% =	1.71 CFS	



DEVELOPMENT NOTES

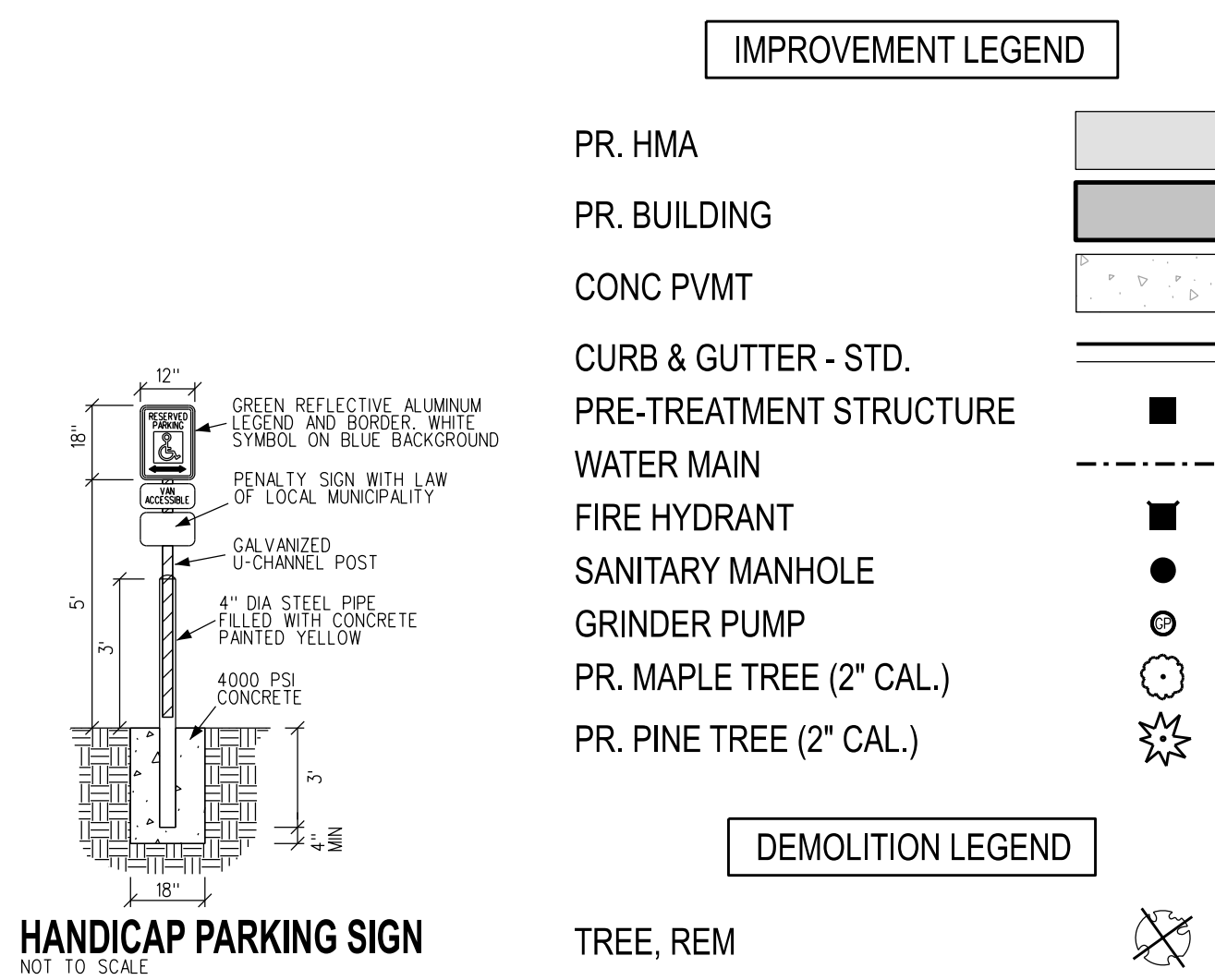
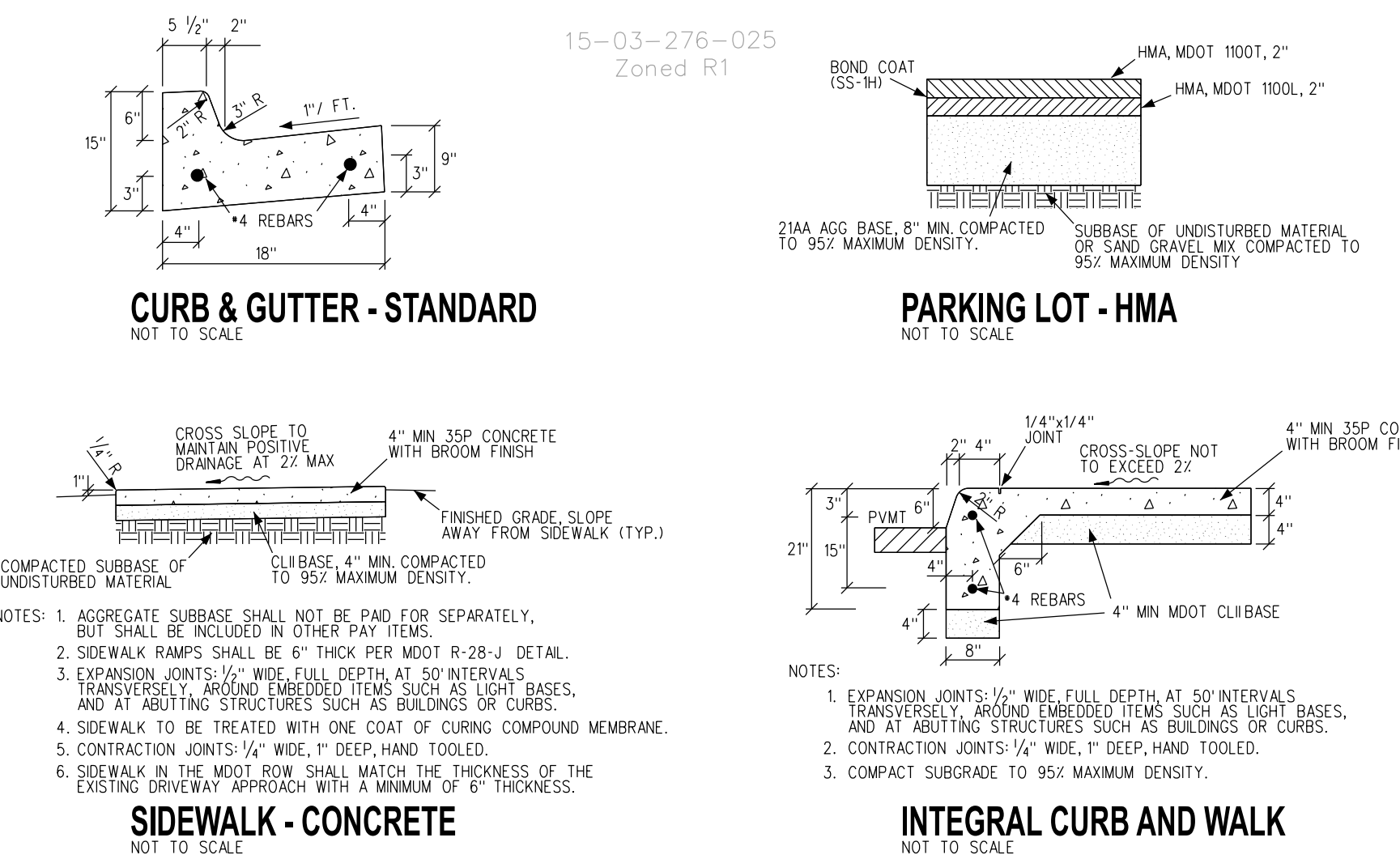
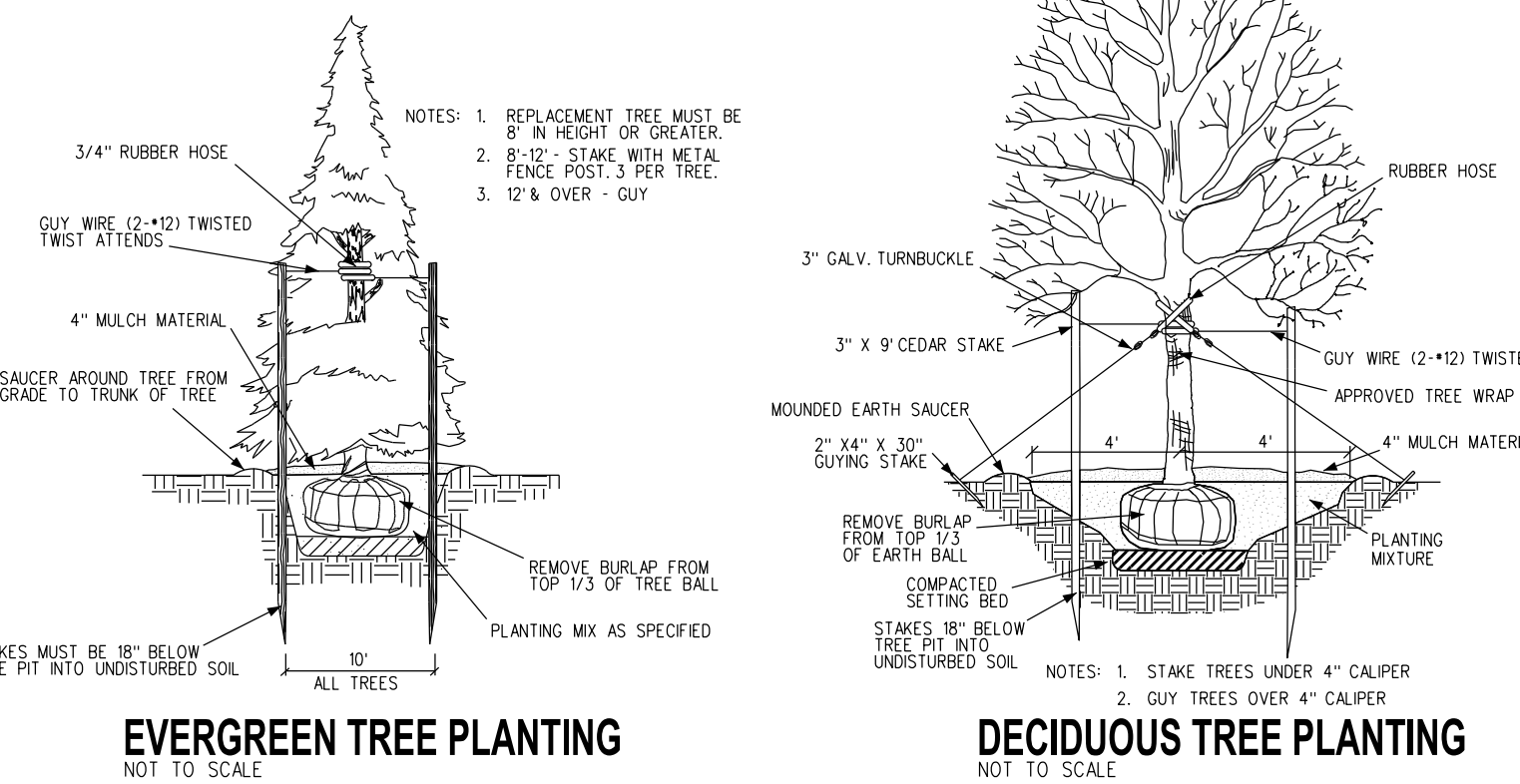
1. WATER SUPPLY: THE PROPOSED BUILDING WILL CONTINUE TO BE SERVICED BY THE EXISTING 8" PUBLIC WATER MAIN FOR FIRE PROTECTION AND DOMESTIC WATER USE. A NEW 8" WATER MAIN WILL EXTEND FROM THE EXISTING 8" WATER MAIN TO PROVIDE TWO ADDITIONAL HYDRANTS FOR FIRE PROTECTION OF THE PROPOSED BUILDING ADDITIONS.
2. SEWAGE DISPOSAL: THE EXISTING CHURCH BUILDING IS CONNECTED TO THE PUBLIC SANITARY SEWER. THE EXISTING CHURCH PARSONAGE IS SERVICED BY A SEPTIC SYSTEM. IT IS PROPOSED TO CONNECT THE EX. PARSONAGE TO THE EXISTING ON-SITE SANITARY SEWER LEAD.
3. STORM DRAINAGE: A NEW CATCH BASIN IS PROPOSED OVER AN EXISTING STORM SEWER SYSTEM WHICH CURRENTLY DISCHARGES STORM WATER TO THE DETENTION POND. AN OFFLINE PRE-TREATMENT SYSTEM IS PROPOSED NEAR THE END OF THE STORM WATER SYSTEM BEFORE DISCHARGING INTO THE POND. THE EXISTING POND HAS SUFFICIENT CAPACITY TO DETAIN FOR A 100-YR STORM WATER EVENT WITH THE ADDITIONAL PROPOSED PARKING LOT.
4. REFER TO ARCHITECTURAL PLANS PREPARED BY AUGER KLEIN ALLER ARCHITECTS FOR DETAILED BUILDING INFORMATION.
5. REFER TO LANDSCAPE PLAN PREPARED BY AUGER KLEIN ALLER ARCHITECTS FOR DETAILED INFORMATION REGARDING LANDSCAPING / PLANTINGS.
6. THE SUBJECT PROPERTY IS LOCATED IN AN AREA OF MINIMAL FLOOD HAZARD (ZONE X) AS DENOTED BY FEMA PANEL 261250384F DATED 09/28/2006.
7. NO REGULATED WETLANDS EXIST ON-SITE PER MDEQ NATIONAL WETLANDS INVENTORY MAPS.
8. EXISTING ON-SITE SOIL TYPE PREDOMINANTLY CONSISTS OF ARKPORT LOAMY FINE SAND (45C), 6-12% SLOPES PER NRCS SOILS INFORMATION.
9. DETAILED PLANS, PROFILES, AND CALCULATIONS WILL BE PREPARED AND SUBMITTED AS PART OF THE ENGINEERING / PERMITTING PHASE.
10. ALL ROOF DRAINAGE WILL BE COLLECTED IN GUTTERS AND BE PIPED UNDERGROUND TO THE PROPOSED STORM SEWER SYSTEM.
11. NO NEW MONUMENT SIGNAGE IS PROPOSED.

FIRE DEPARTMENT NOTES

1. A KNOX KEY SYSTEM SHALL BE INSTALLED IN A LOCATION APPROVED BY THE FIRE CODE OFFICIAL. ORDERING INFORMATION IS AVAILABLE FROM THE KNOX COMPANY AT KNOXBOX.COM.
2. FIRE LANES SHALL BE DESIGNATED BY THE FIRE CODE OFFICIAL AND SHALL BE CONSPICUOUSLY POSTED ON BOTH SIDES OF THE FIRE LANE, WITH FIRE LANE SIGNS, SPACED NOT MORE THAN 100 FEET APART. FIRE LANE SIGNS READ "NO STOPPING, STANDING, PARKING, FIRE LANE," AND SHALL CONFORM TO THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
3. CONSTRUCTION SITES SHALL BE SAFEGUARDED IN ACCORDANCE WITH IFC 2006 CHAPTER 14.
4. OPEN BURNING IS NOT PERMITTED INCLUDING THE BURNING OF TRASH, DEBRIS, OR LAND CLEARING MATERIALS. OPEN BURNING FOR WARMING OR SAND DRYING FOR THE PREPARATION OF MORTAR SHALL BE WITHIN THE CITY OF ROCHESTER HILLS BURN PERMIT GUIDELINES.
5. AN UNOBSTRUCTED VERTICAL CLEARANCE OF NOT LESS THAN 13' 6" FOR FIRE DEPARTMENT ACCESS ROAD WHERE CANOPY PROTRUSION EXISTS.

LANDSCAPE NOTES

1. PRIOR APPROVAL IS REQUIRED TO PLANT ANY TREE OR SHRUB ON THE PUBLIC RIGHT-OF-WAY.
2. ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM THE EDGE OF THE PUBLIC ROAD (TREES MUST BE PLANTED AT LEAST 15' AWAY FROM CURB OR ROAD EDGE WHERE THE SPEED LIMIT IS MORE THAN 35 MPH).
3. SHADE TREES AND SHRUBS MUST BE PLANTED AT LEAST 5' FROM THE EDGE OF THE PUBLIC WALKWAY.
4. EVERGREEN AND ORNAMENTAL TREES MUST BE PLANTED AT LEAST 10' FROM THE EDGE OF THE PUBLIC WALKWAY.
5. NO TREES OR SHRUBS MAY BE PLANTED WITHIN THE TRIANGULAR AREA FORMED AT THE INTERSECTION OF ANY STREET RIGHT-OF-WAY LINES AT A DISTANCE ALONG EACH LINE OF 25' FROM THEIR POINT OF INTERSECTION.
6. NO TREES OR SHRUBS MAY BE PLANTED IN THE TRIANGULAR AREA FORMED AT THE INTERSECTION OF ANY DRIVEWAY WITH A PUBLIC WALKWAY AT A DISTANCE ALONG EACH LINE OF 15' FROM THEIR POINT OF INTERSECTION.
7. ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM ANY FIRE HYDRANT. SHADE AND EVERGREEN TREES MUST BE AT LEAST 15' AWAY FROM THE NEAREST OVERHEAD WIRE.
8. TREES MUST BE PLANTED MINIMUM OF 5' FROM AN UNDERGROUND UTILITY, UNLESS THE CITY'S LANDSCAPE ARCHITECT REQUIRES A GREATER DISTANCE.
9. PRIOR TO THE RELEASE OF THE PERFORMANCE BOND, THE CITY OF ROCHESTER HILLS FORESTRY UNIT NEEDS TO INSPECT ALL TREES, EXISTING OR PLANTED, TO IDENTIFY ANY THAT POSE A HAZARD TO THE SAFE USE OF THE PUBLIC RIGHT-OF-WAY.
10. FORESTRY MAY REQUIRE THE DEVELOPER TO REMOVE, AND POSSIBLY REPLACE, ANY SUCH TREES.
11. THE ABOVE REQUIREMENTS ARE INCORPORATED INTO THE PLAN.



IMPROVEMENT LEGEND

- PR. HMA
- PR. BUILDING
- CONC PVMT
- CURB & GUTTER - STD.
- PRE-TREATMENT STRUCTURE
- WATER MAIN
- FIRE HYDRANT
- SANITARY MANHOLE
- GRINDER PUMP
- PR. MAPLE TREE (2" CAL.)
- PR. PINE TREE (2" CAL.)

DEMOLITION LEGEND

- TREE, REM

CITY: ROCHESTER HILLS
COUNTY: OAKLAND
SECTION: 3
T-3-N, R-11-E

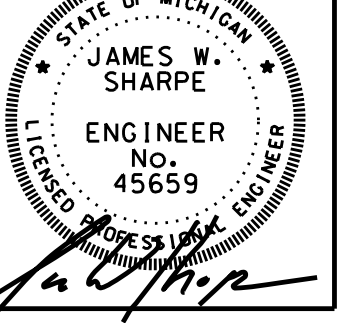
INITIAL SUBMITTAL: 01/05/21
THIS SUBMITTAL: 03/03/21
SCALE: 1" = 40'
SHEET: C-2
PROJECT: 004.15.01

DATE	REVISION	DESCRIPTION
03/03/21	REVISED	REVISED SITE PLAN PER REVIEW LETTER DATED 01/29/21
03/03/21	REVISED	REVISED SITE PLAN PER REVIEW LETTER DATED 01/29/21

MISS DIG SYSTEM
 KNOW WHAT'S BELOW
 800-482-7171 OR 811
 CONTACT THE MISS DIG SYSTEM 3 WORKING DAYS IN ADVANCE

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JAMES W. SHARPE
 PROFESSIONAL ENGINEER
 NO. 45659

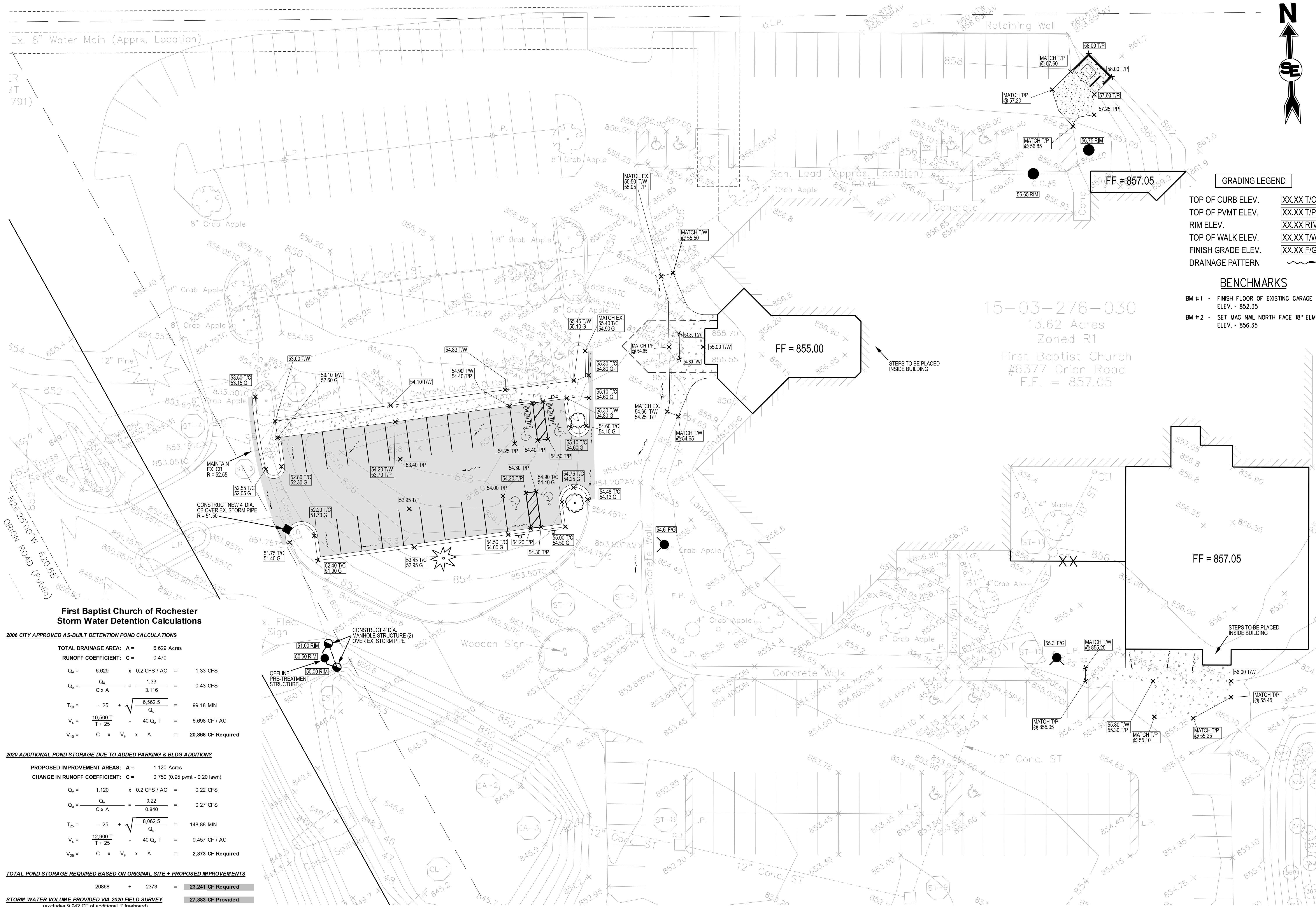


DEVELOPED FOR:
FIRST BAPTIST CHURCH OF ROCHESTER
 6377 ORION RD
 ROCHESTER HILLS, MI 48306
 248.652.6151

GRADING PLAN
 FIRST BAPTIST CHURCH OF ROCHESTER

CITY: ROCHESTER HILLS
 COUNTY: OAKLAND
 SECTION: 3
 T-3-N, R-11-E

INITIAL SUBMITTAL: 01/05/21
 THIS SUBMITTAL: 03/03/21
 SCALE: 1" = 20'
 SHEET: C-3
 PROJECT: 004.15.01



- GRADING LEGEND**
- TOP OF CURB ELEV. XX.XX T/C
 - TOP OF PVMT ELEV. XX.XX T/P
 - RIM ELEV. XX.XX RIM
 - TOP OF WALK ELEV. XX.XX T/W
 - FINISH GRADE ELEV. XX.XX F/G
 - DRAINAGE PATTERN

- BENCHMARKS**
- BM #1 • FINISH FLOOR OF EXISTING GARAGE ELEV. • 852.35
 - BM #2 • SET MAG NAIL NORTH FACE 18" ELM ELEV. • 856.35

15-03-276-030
 13.62 Acres
 Zoned R1
 First Baptist Church
 #6377 Orion Road
 F.F. = 857.05

First Baptist Church of Rochester Storm Water Detention Calculations

2006 CITY APPROVED AS-BUILT DETENTION POND CALCULATIONS

TOTAL DRAINAGE AREA: A = 6.629 Acres
 RUNOFF COEFFICIENT: C = 0.470

$$Q_p = 6.629 \times 0.2 \text{ CFS} / \text{AC} = 1.33 \text{ CFS}$$

$$Q_s = \frac{Q_p}{C \times A} = \frac{1.33}{0.470 \times 6.629} = 0.43 \text{ CFS}$$

$$T_{10} = -25 + \sqrt{\frac{6.662.5}{Q_p}} = 99.18 \text{ MIN}$$

$$V_s = \frac{10,000 T}{T + 25} - 40 Q_p T = 6,698 \text{ CF} / \text{AC}$$

$$V_{10} = C \times V_s \times A = 20,868 \text{ CF Required}$$

2020 ADDITIONAL POND STORAGE DUE TO ADDED PARKING & BLDG ADDITIONS

PROPOSED IMPROVEMENT AREAS: A = 1.120 Acres
 CHANGE IN RUNOFF COEFFICIENT: C = 0.750 (0.95 pmt - 0.20 lawn)

$$Q_p = 1.120 \times 0.2 \text{ CFS} / \text{AC} = 0.22 \text{ CFS}$$

$$Q_s = \frac{Q_p}{C \times A} = \frac{0.22}{0.750 \times 1.120} = 0.27 \text{ CFS}$$

$$T_{25} = -25 + \sqrt{\frac{8,062.5}{Q_p}} = 148.88 \text{ MIN}$$

$$V_s = \frac{12,900 T}{T + 25} - 40 Q_p T = 9,457 \text{ CF} / \text{AC}$$

$$V_{25} = C \times V_s \times A = 2,373 \text{ CF Required}$$

TOTAL POND STORAGE REQUIRED BASED ON ORIGINAL SITE + PROPOSED IMPROVEMENTS

20868 + 2373 = **23,241 CF Required**

STORM WATER VOLUME PROVIDED VIA 2020 FIELD SURVEY
 (excludes 9,942 CF of additional 1' freeboard) **27,383 CF Provided**

15-03-256-001

15-03-256-002

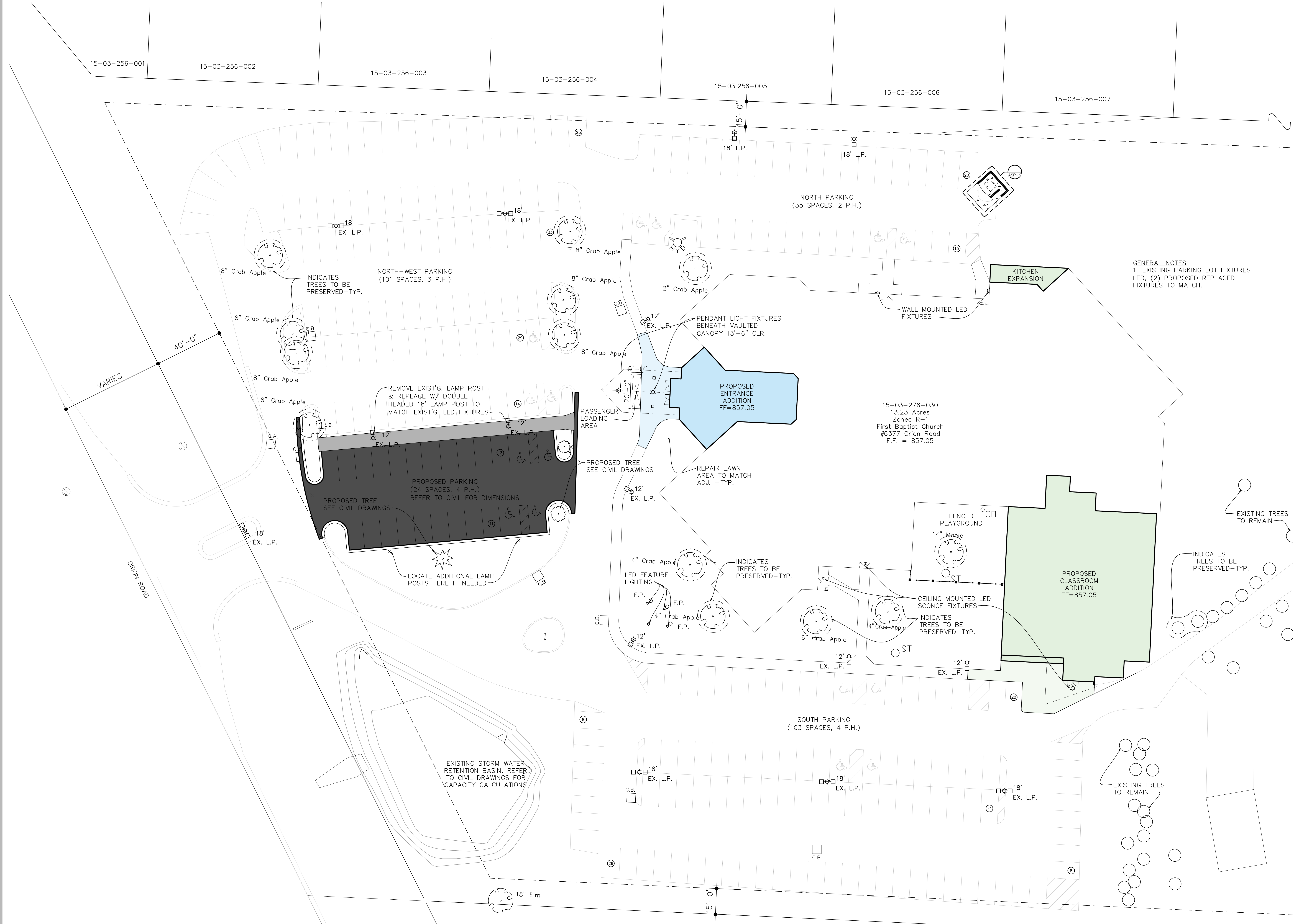
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15-03-256-004

15-03-256-005

15-03-256-006

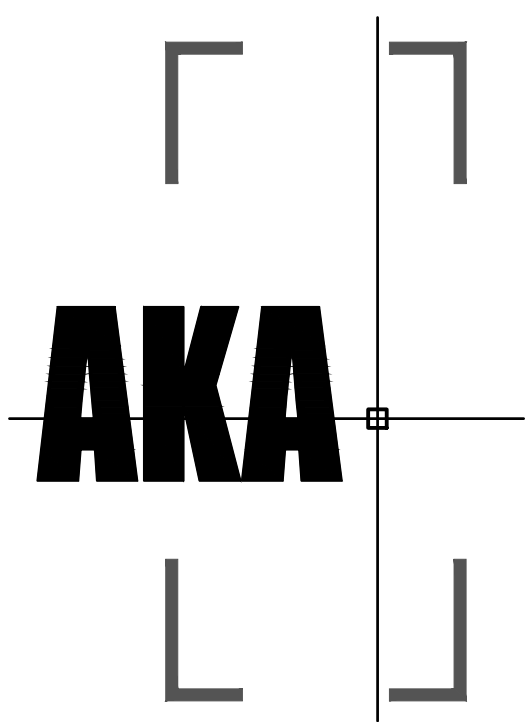
15-03-256-007



GENERAL NOTES
 1. EXISTING PARKING LOT FIXTURES LED, (2) PROPOSED REPLACED FIXTURES TO MATCH.

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AUGER KLEIN ALLER ARCHITECTS INC.
 303 E. THIRD STREET SUITE 100
 ROCHESTER, MI 48307
 248.814.9160
 WWW.AKA-ARCHITECTS.NET

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PROJECT
First Baptist Church of Rochester
 6377 Orion Road
 Rochester, MI

DATE ISSUED	ISSUED FOR
08.21.2020	R.H. Plan Review
01.05.2021	R.H. Plan Review
03.03.2021	R.H. Plan Review

DRAWN _____
 CHECKED _____
 APPROVED _____

SHEET
Architectural Site Plan

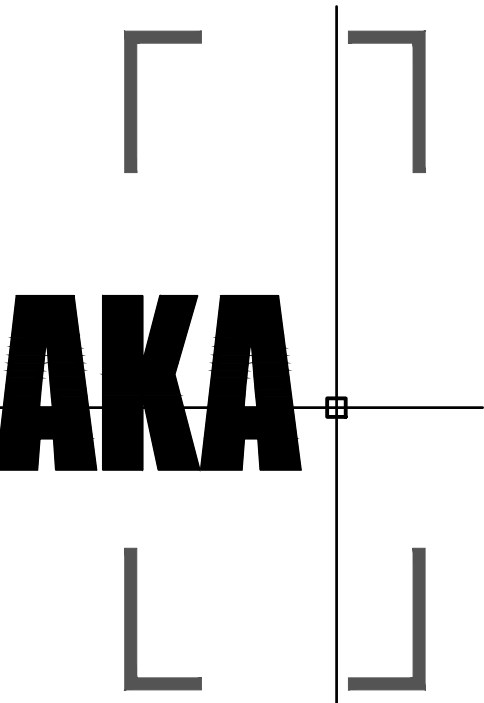
scale as shown

FILE NUMBER
1822

SHEET NUMBER
ASP-1

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PROJECT

First Baptist Church of Rochester
6377 Orion Road
Rochester, MI

DATE ISSUED	ISSUED FOR
01.05.2021	R.H. Plan Review
03.03.2021	R.H. Plan Review

DRAWN
CHECKED
APPROVED

SHEET
Architectural Details

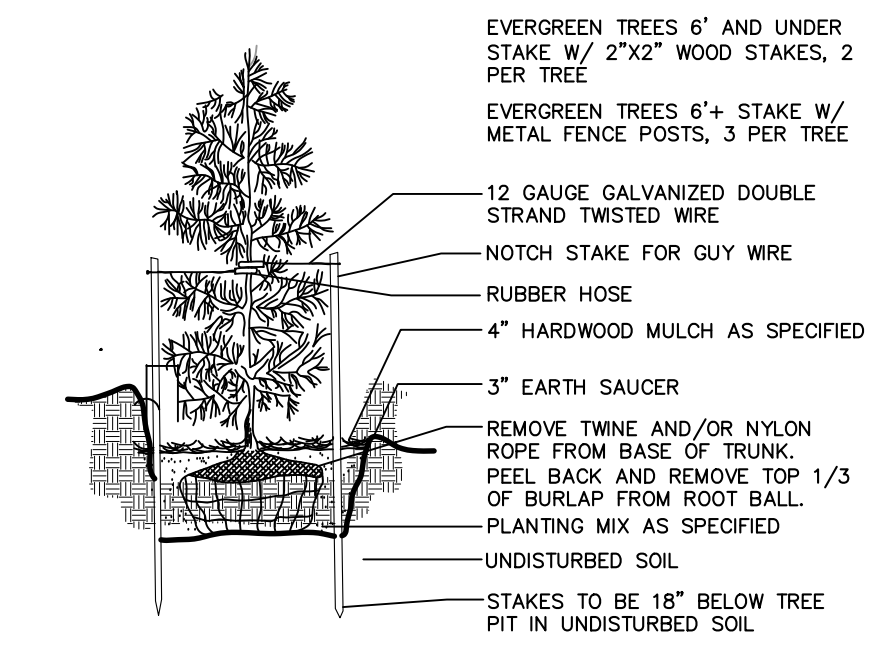
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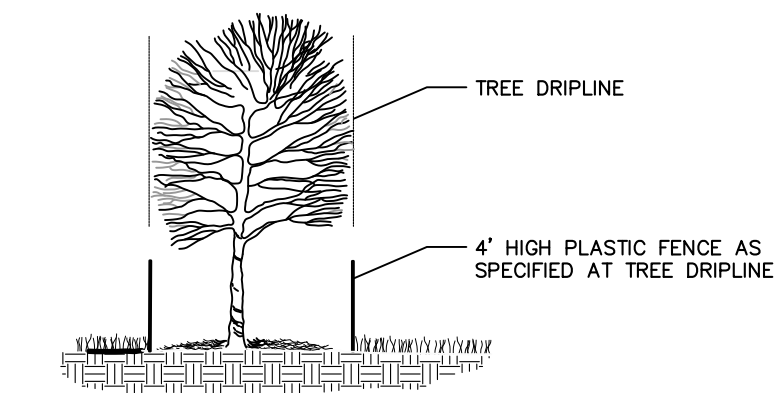
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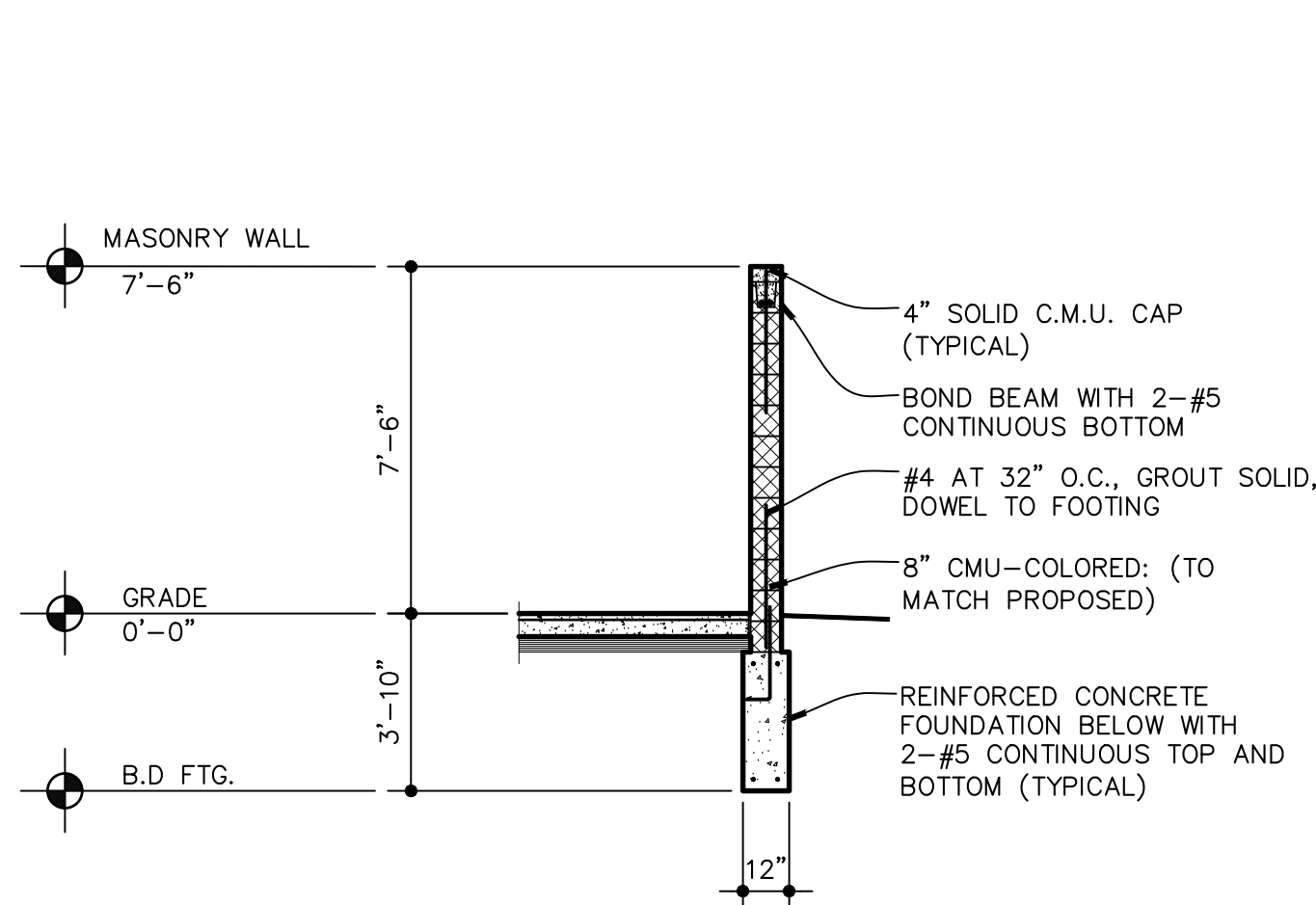
ASP-2



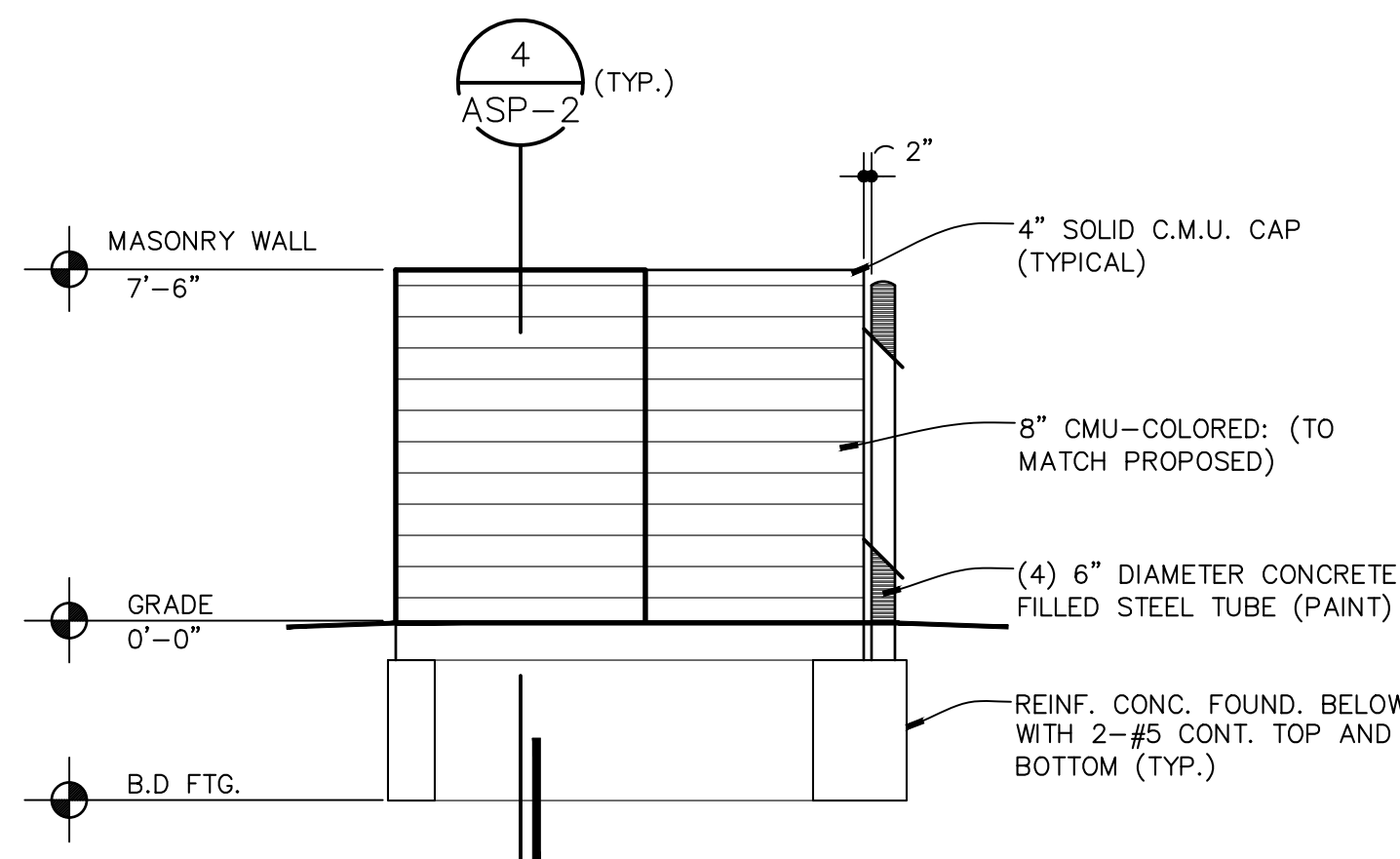
5 Typical Coniferous Tree Protection
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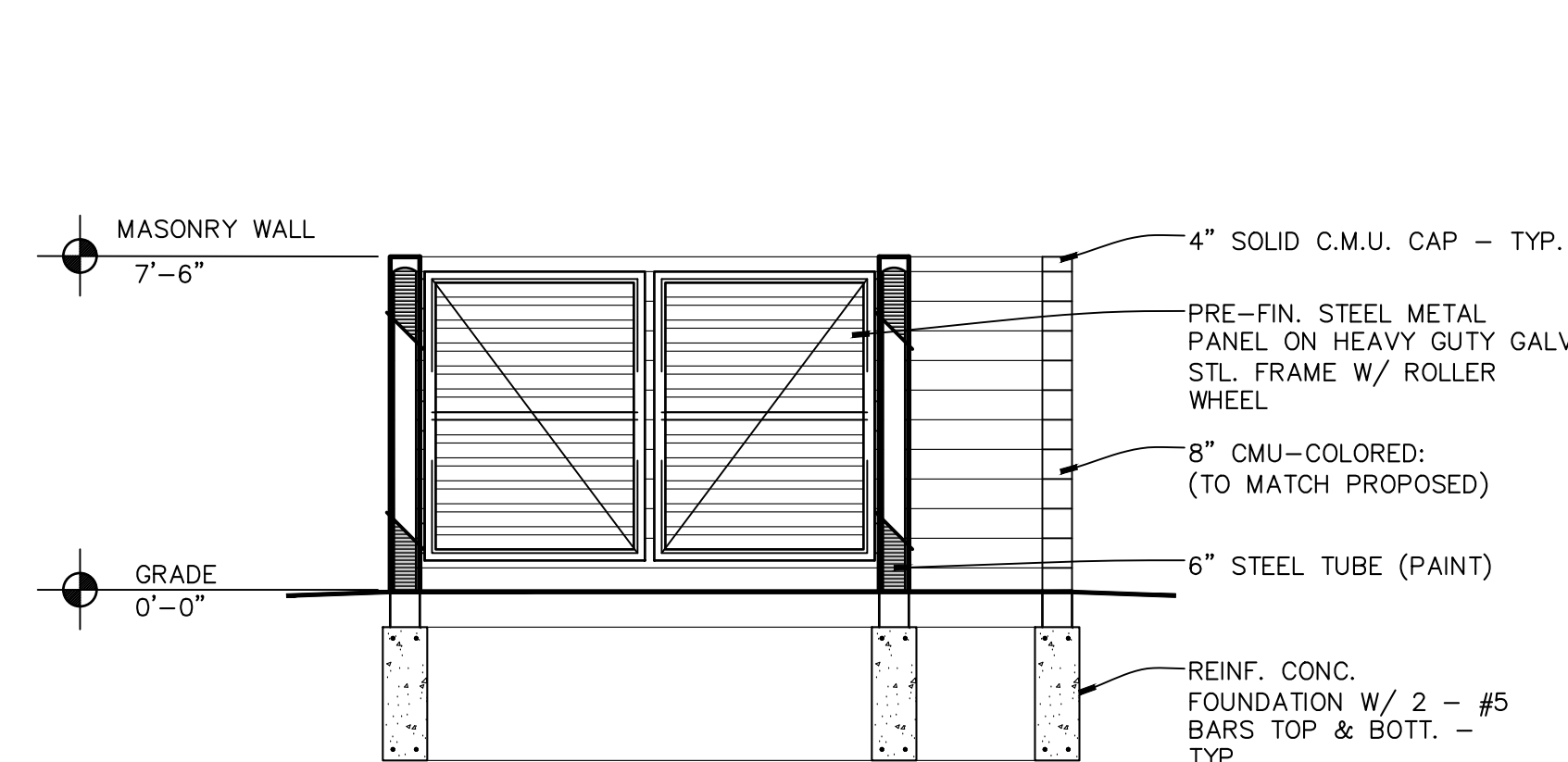
6 Typical Tree Protection
ASP-2 NO SCALE:



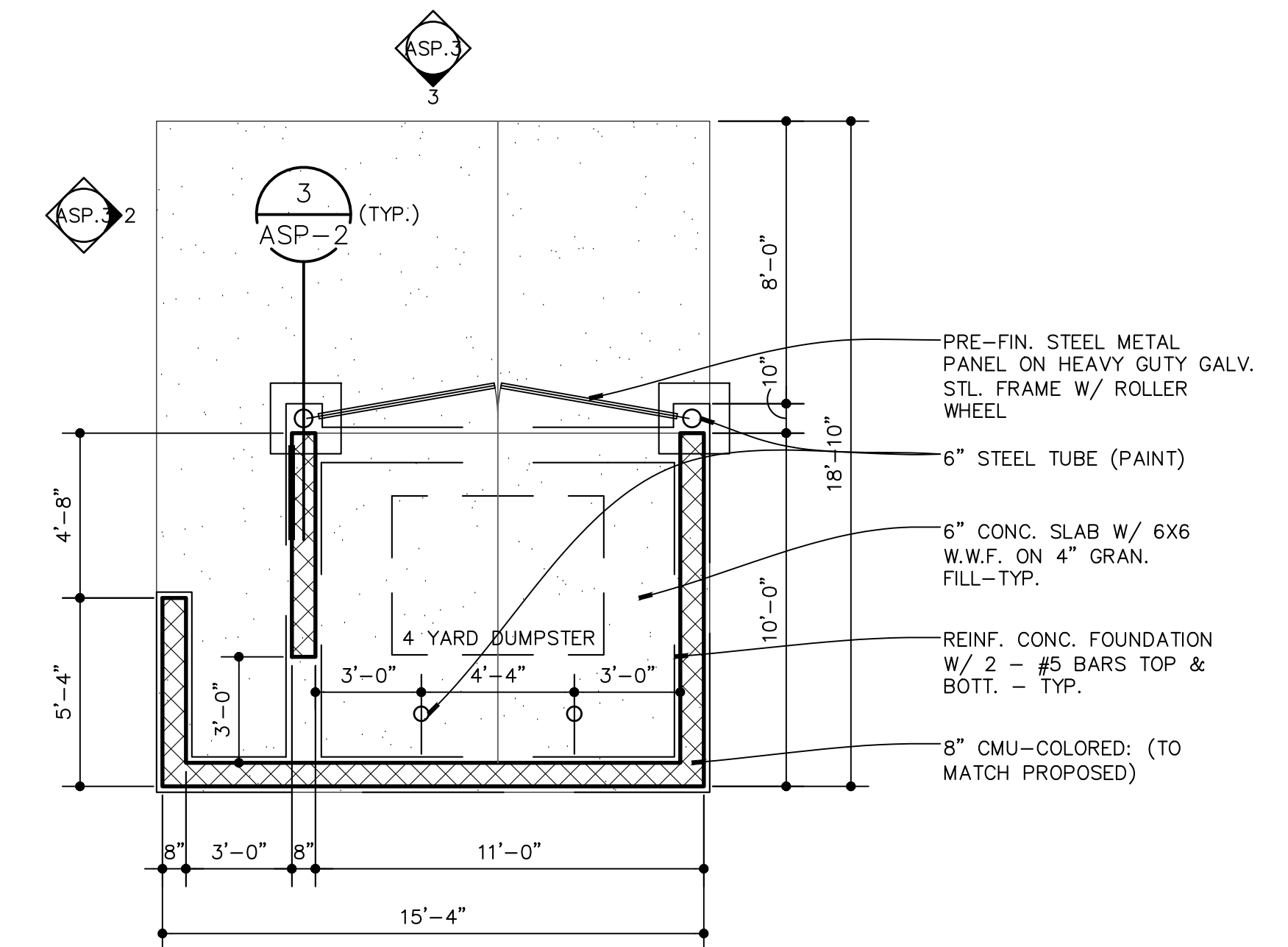
4 Trash Enclosure Section
ASP-2 SCALE: 1/4" = 1'-0"



3 Trash Enclosure Elevation
ASP-2 SCALE: 1/4" = 1'-0"



2 Trash Enclosure Elevation
ASP-2 SCALE: 1/4" = 1'-0"



1 Trash Enclosure Plan
ASP-2 SCALE: 1/4" = 1'-0"



KAD LED LED Area Luminaire

Specifications
 EPA: 1.2 ft² (0.11 m²)
 Length: 17-1/2" (44.3 cm)
 Width: 17-1/2" (44.3 cm)
 Height: 7-1/8" (18.1 cm)
 Weight: 36 lbs. (16.3 kg)

Color Number	Notes	Type

Capable Luminaire
 This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.
 • All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
 • This luminaire is A+ Certified when ordered with DTL* controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocell interoperability.
 • This luminaire is part of an A+ Certified solution for ROAM*2 or XPaint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background.
 To learn more about A+, visit www.acuitybrands.com/aplus.
 1. See ordering tree for details.
 2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately. [Link to ROAM](#) [Link to DTL DLL](#)

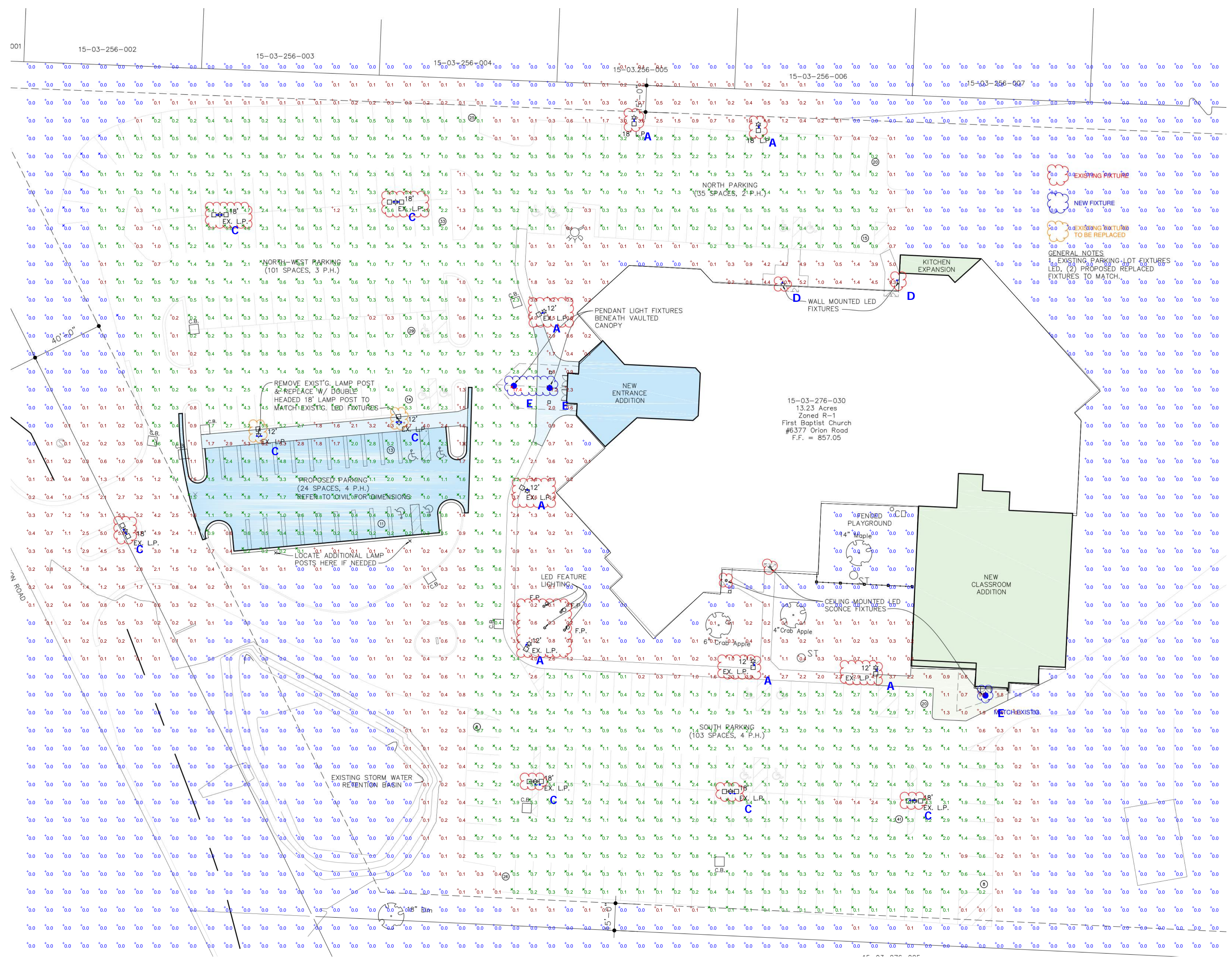
Ordering Information

EXAMPLE: KAD LED 40C 1000 40K R5 MVOLT SPD04 DDBXD

Series	LEDs	Drive current	CCT	Distributions	Voltage	Mounting	Shipped separately
KADLED	20C ¹ 20 LEDs	530 530 mA	30K 3000K	R2 Type II	MVOLT ² 277V ³	SPUMAK ⁴	Shipped separately
	30C ¹ 30 LEDs	700 700 mA	40K 4000K	R3 Type III	120V ³ 347V ³	SPUMAK ⁴	Shipped separately
	40C ¹ 40 LEDs	1000 1000 mA	50K 5000K	R4 Type IV	208V ³ 480V ³	SPUMAK ⁴	Shipped separately
	60C ¹ 60 LEDs			R5 Type V ¹	240V ³	SPD ⁵	Shipped separately
						RPD ⁶	Shipped separately
						WWD ⁷	Shipped separately
						WWD ⁷	Shipped separately

Options	Shipped separately
PERF ⁸ See-wire receptacle only (no controls)	WG Wire guard
PIR/FCV Bi-level, motion/lambert sensor, 9-15 mounting height, ambient sensor enabled at 16" ⁹	DOBK Dark bronze
PIR/FCV Bi-level, motion/lambert sensor, 15-30 mounting height, ambient sensor enabled at 16" ⁹	DBKX Black
PIR Bi-level, motion/lambert sensor, 9-15 mounting height, ambient sensor enabled at 16" ⁹	DNATD Natural aluminum
PIR Bi-level, motion/lambert sensor, 15-30 mounting height, ambient sensor enabled at 16" ⁹	DNATZ Textured natural aluminum
PIR Bi-level, motion/lambert sensor, 9-15 mounting height, ambient sensor enabled at 16" ⁹	DNWIK White
PIR Bi-level, motion/lambert sensor, 15-30 mounting height, ambient sensor enabled at 16" ⁹	DNWIZ Textured white

LITHONIA LIGHTING
 One Lithonia Way • Conyers, Georgia 30012 • Phone: 800-705-SERV (7378) • www.lithonia.com
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 KAD LED Rev. 01/20/20 Page 1 of 2



Plan View
 Scale: 1" = 30ft

Ordering Note
 FOR INQUIRIES CONTACT GASSER BUSH AT QUOTES@GASSERBUSH.COM OR 734-266-6705.

Drawing Note
 THIS DRAWING WAS GENERATED FROM AN ELECTRONIC IMAGE FOR ESTIMATION PURPOSE ONLY. LAYOUT TO BE VERIFIED IN FIELD BY OTHERS.

Mounting Height Note
 MOUNTING HEIGHT IS MEASURED FROM GRADE TO FACE OF FIXTURE. POLE HEIGHT SHOULD BE CALCULATED AS THE MOUNTING HEIGHT LESS BASE HEIGHT.

General Note
 1. SEE SCHEDULE FOR LUMINAIRE MOUNTING HEIGHT.
 2. CALCULATIONS ARE SHOWN IN FOOTCANDLES AT: 0' - 0"

THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING / FUTURE FIELD CONDITIONS. THIS LIGHTING LAYOUT REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS. MOUNTING HEIGHTS INDICATED ARE FROM GRADE AND/OR FLOOR UP.

THESE LIGHTING CALCULATIONS ARE NOT A SUBSTITUTE FOR INDEPENDENT ENGINEERING ANALYSIS OF LIGHTING SYSTEM SUITABILITY AND SAFETY. THE ENGINEER AND/OR ARCHITECT IS RESPONSIBLE TO VERIFY FOR MICHIGAN ENERGY CODE AND LIGHTING QUALITY COMPLIANCE.

UNLESS EXEMPT, PROJECT MUST COMPLY WITH LIGHTING CONTROLS REQUIREMENTS DEFINED IN ASHRAE 90.1 2013. FOR SPECIFIC INFORMATION CONTACT GBA CONTROLS GROUP AT ASG@GASSERBUSH.COM OR 734-266-6705.

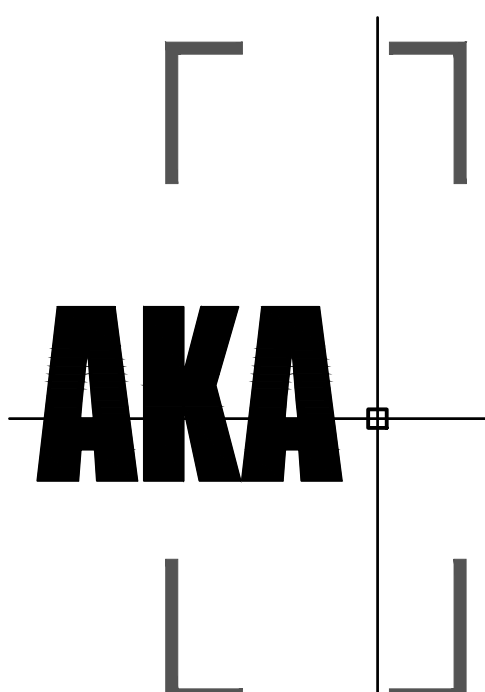
Symbol	Label	QTY	Catalog Number	Description	Lamp	Number Lamps	Lumens per Lamp	LLF	Wattage	Mounting Height
⊞	A	7	KAD LED 30C 1000 40K R4 MVOLT HS	KAD LED, 30 LED, 1 AMP MVOLT DRIVER, 4000K, TYPE 4 OPTICS WITH HOUSE SIDE SHIELDS	LED	1	9012	0.9	108	18'
⊞	C	8	KAD LED 30C 1000 40K R5 MVOLT HS	KAD LED, 30 LED, 1 AMP MVOLT DRIVER, 4000K, TYPE 5 OPTICS WITH HOUSE SIDE SHIELDS	LED	1	9108	0.9	216	18'
⊞	D	2	KAXW LED P2 40K R4 MVOLT	KAXW LED, PERFORMANCE PACKAGE 2, 4000K, TYPE 4, 120-277V	LED	1	6284	0.9	49	12'
⊞	E	3	C1203GV-27L-35K-EX-TSG-SO	Norm 12" Diam x 3"H LED Cylinder	LED	1	2028	0.9	18	8'

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PARKING	✕	1.5 fc	17.4 fc	0.0 fc	N/A	N/A
SITE	+	0.7 fc	17.4 fc	0.0 fc	N/A	N/A



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AUGER KLEIN ALLER ARCHITECTS INC.
 303 E. THIRD STREET SUITE 100
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 248.814.9160
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PROJECT
 First Baptist Church of Rochester
 6377 Orion Road
 Rochester, MI

DATE ISSUED	ISSUED FOR
08.21.2020	R.H. Plan Review
01.05.2021	R.H. Plan Review
03.03.2021	R.H. Plan Review

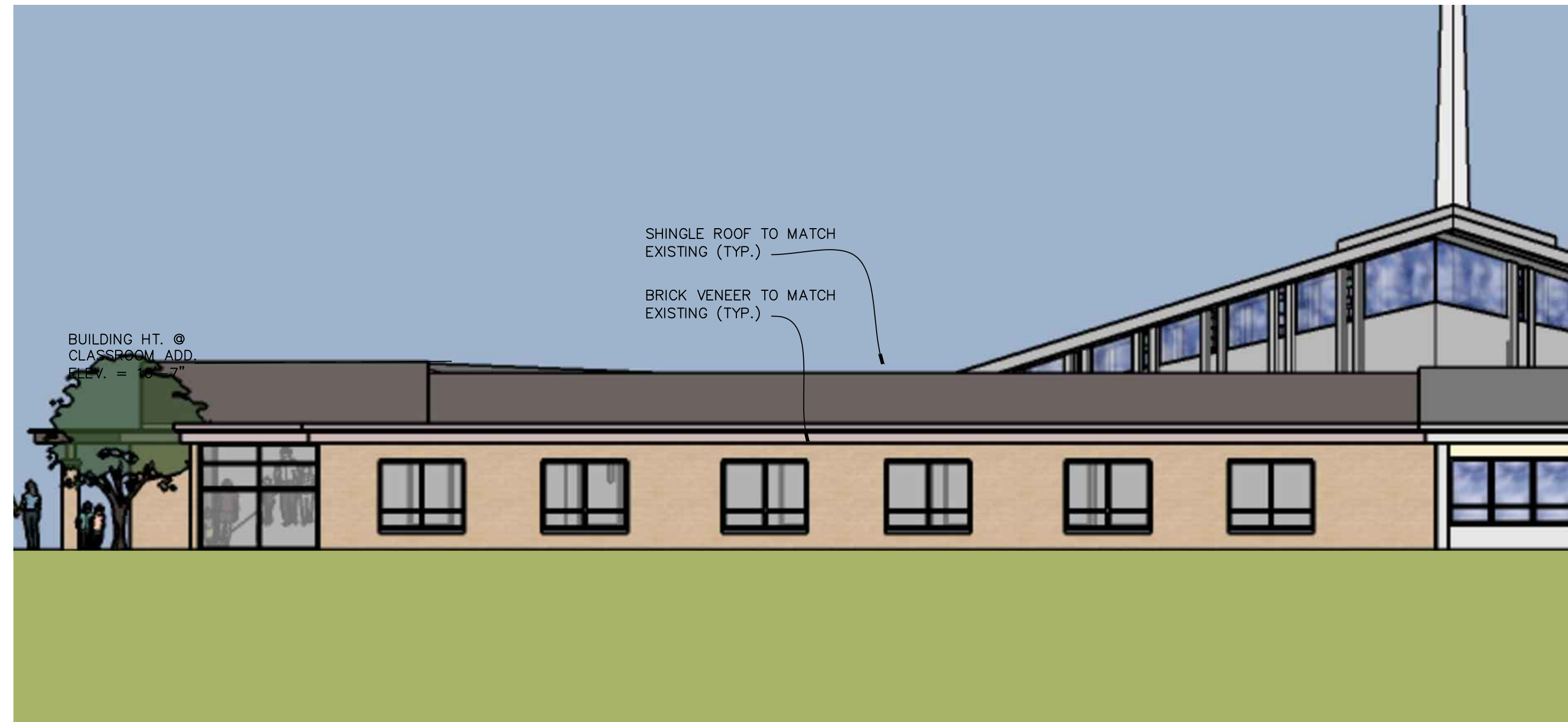
DRAWN
CHECKED
APPROVED

SHEET
 Overall Conceptual Floor Plan
 scale as shown

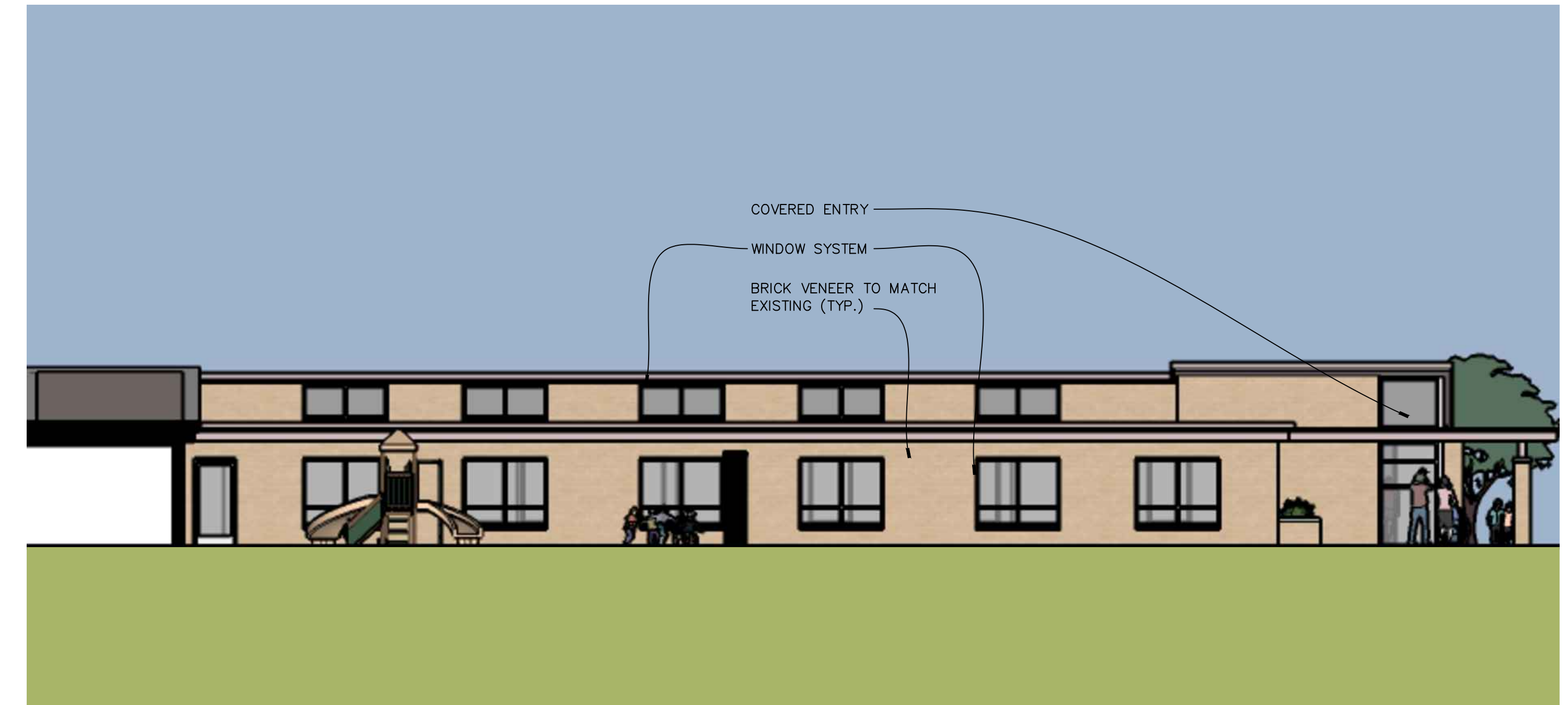
FILE NUMBER
 1822
SHEET NUMBER
 SD.100

1 Conceptual Floor Plan
 SD.100 SCALE: 3/32" = 1'-0"

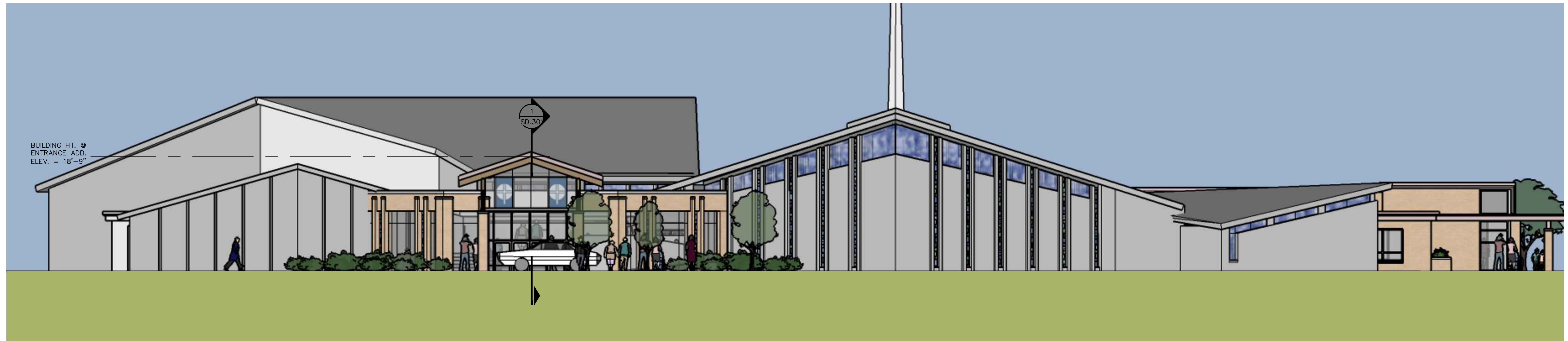
- NEW CONSTRUCTION: EDUCATION**
8,423 SF
- NEW CONSTRUCTION: ENTRY HALL**
2,420 SF



4 Classroom Addition
East Elevation
SD.201 SCALE: 1/8" = 1'-0"



3 Classroom Addition
West Elevation
SD.201 SCALE: 1/8" = 1'-0"



2 Overall
West Elevation
SD.201 SCALE: 1/8" = 1'-0"



1 Overall
South Elevation
SD.201 SCALE: 3/32" = 1'-0"

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PROJECT
First Baptist
Church of
Rochester
6377 Orion Road
Rochester, MI

DATE ISSUED	ISSUED FOR
08.21.2020	R.H. Plan Review
01.05.2021	R.H. Plan Review
03.03.2021	R.H. Plan Review

DRAWN _____
CHECKED _____
APPROVED _____

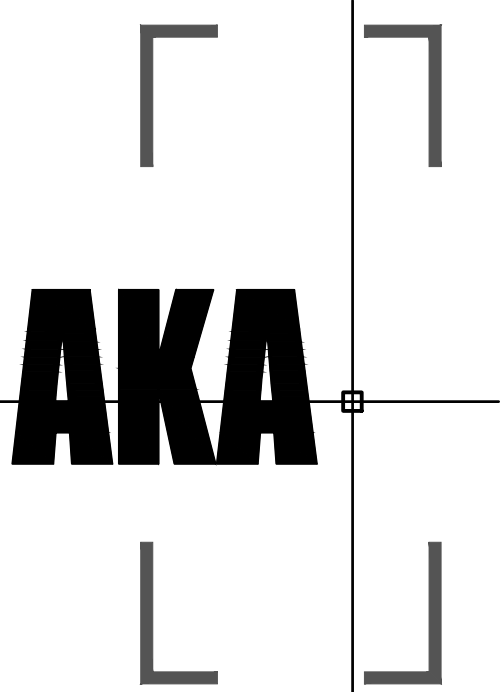
SHEET
Proposed
Exterior
Elevations
scale as shown

FILE NUMBER
1822

SHEET NUMBER
SD.201

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PROJECT
First Baptist Church of Rochester
6377 Orion Road
Rochester, MI

DATE ISSUED	ISSUED FOR
08.21.2020	R.H. Plan Review
01.05.2021	R.H. Plan Review
03.30.2021	R.H. Plan Review

DRAWN
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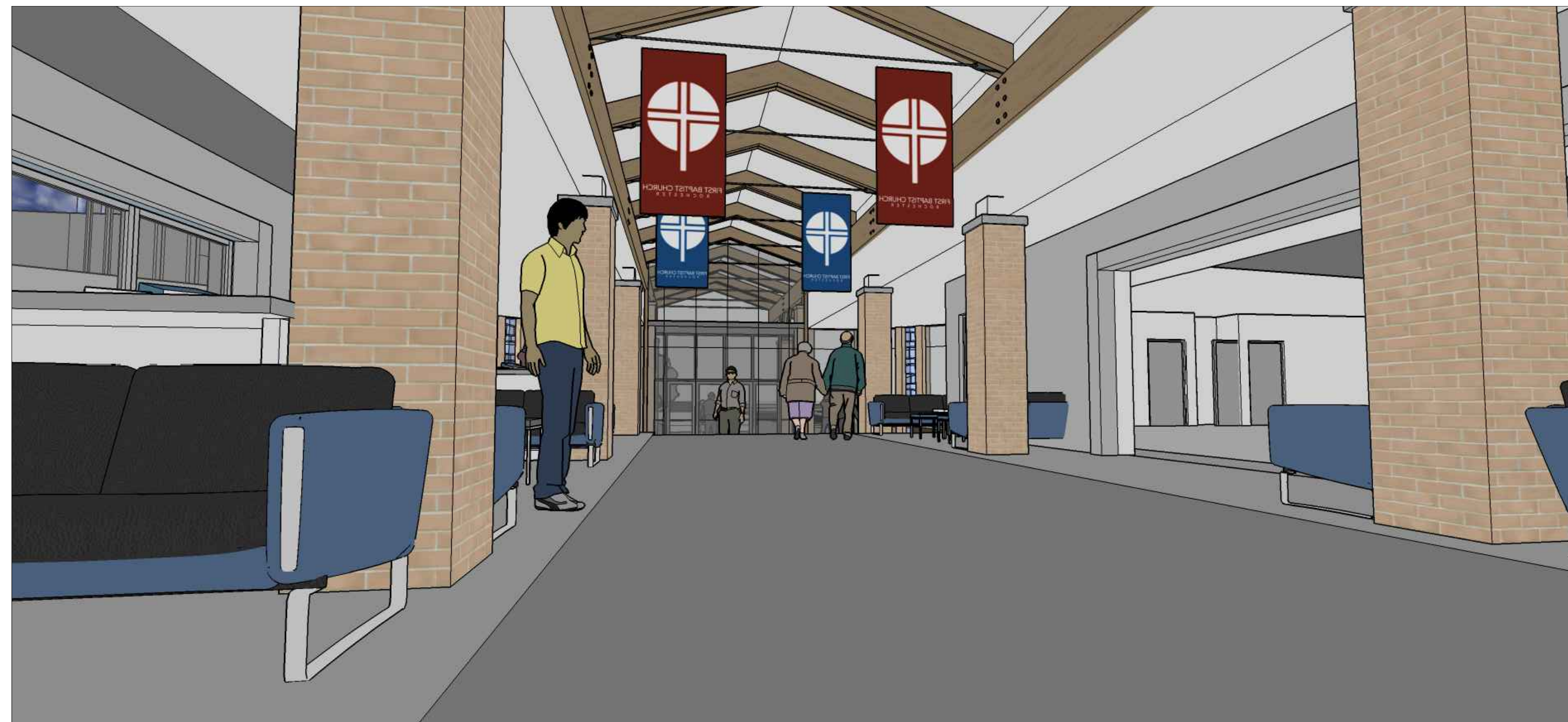
SHEET
Proposed Entry Section
scale as shown

FILE NUMBER
1822

SHEET NUMBER
SD.202



1 North/South Building Section
SD.202 SCALE: 1/8" = 1'-0"



6 Interior Perspective
SD.202 SCALE: NOT TO SCALE



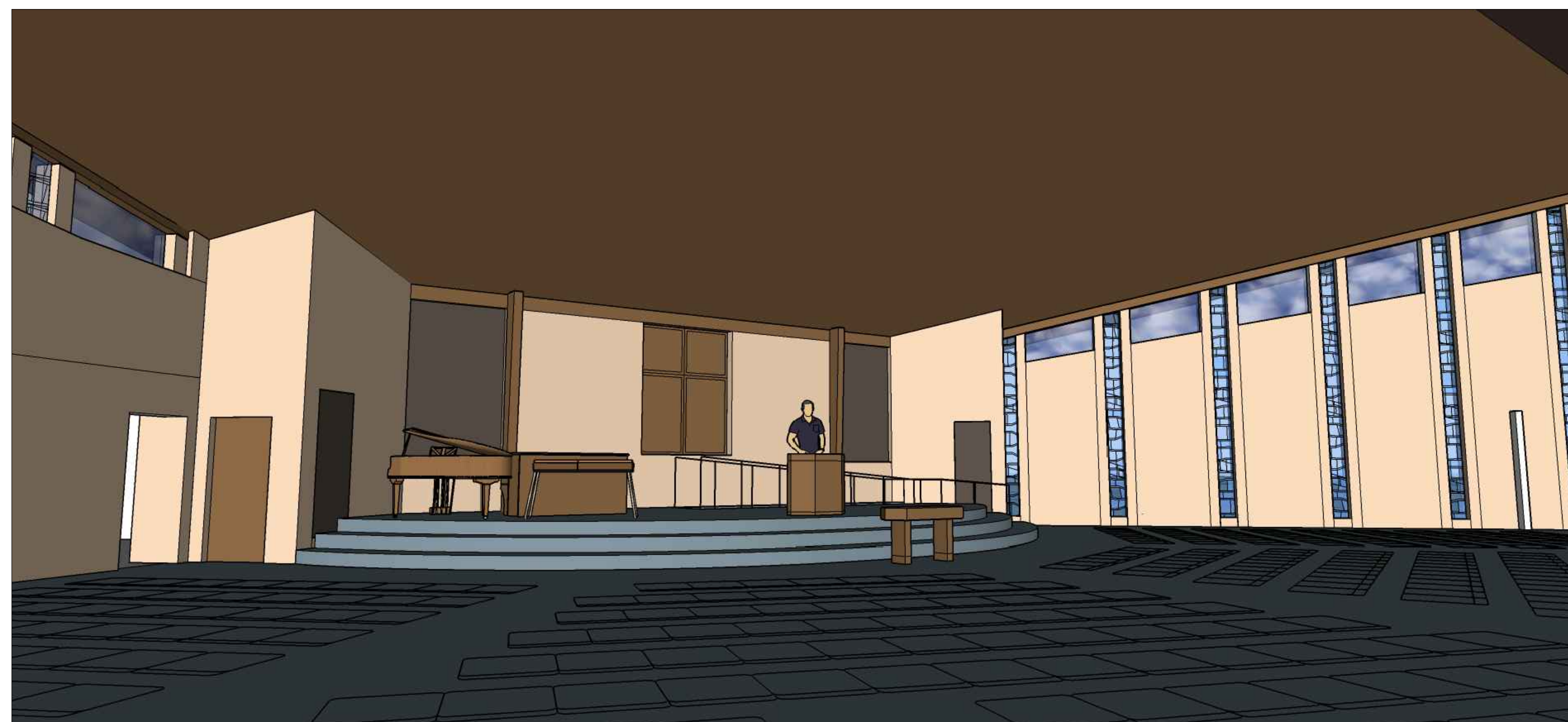
3 Exterior Perspective
SD.202 SCALE: NOT TO SCALE



5 Interior Perspective
SD.202 SCALE: NOT TO SCALE



2 Exterior Perspective
SD.202 SCALE: NOT TO SCALE



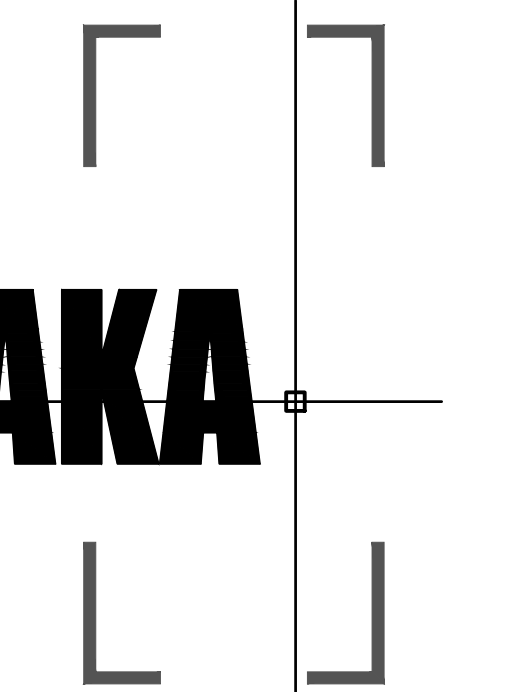
4 Interior Perspective
SD.202 SCALE: NOT TO SCALE



1 Exterior Perspective
SD.202 SCALE: NOT TO SCALE

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01.05.2021	R.H. Plan Review
03.03.2021	R.H. Plan Review

DRAWN
CHECKED
APPROVED

SHEET
Exterior & Interior Perspectives
scale as shown

FILE NUMBER
1822

SHEET NUMBER
SD.203