

311 East Chicago Street
Suite 310
Milwaukee, WI 53202

p. 414-727-2321
E. 414-276-1764
www.sha-a2k.com

HOLY CROSS LUTHERAN
734 HOLY CROSS WAY
MADISON, WI 53704

DEVELOPED BY:

INTERSTATE HIGHWAYS 90, 94 & 39
R.O.W. VARIES

INFORMATION ON THIS DRAWING TAKES PRECEDENCE OVER THE SPECIFICATIONS MANUAL IF THE DOCUMENTS HAVE CONFLICTING INFORMATION.

NO.	DATE	BY	DESCRIPTION

EXISTING CONDITIONS

SCALE: 1"=40' SHEET:
PROJECT #: 1203
DRWN BY: BDP
CHKD BY: AEK
DATE: 12/02/14



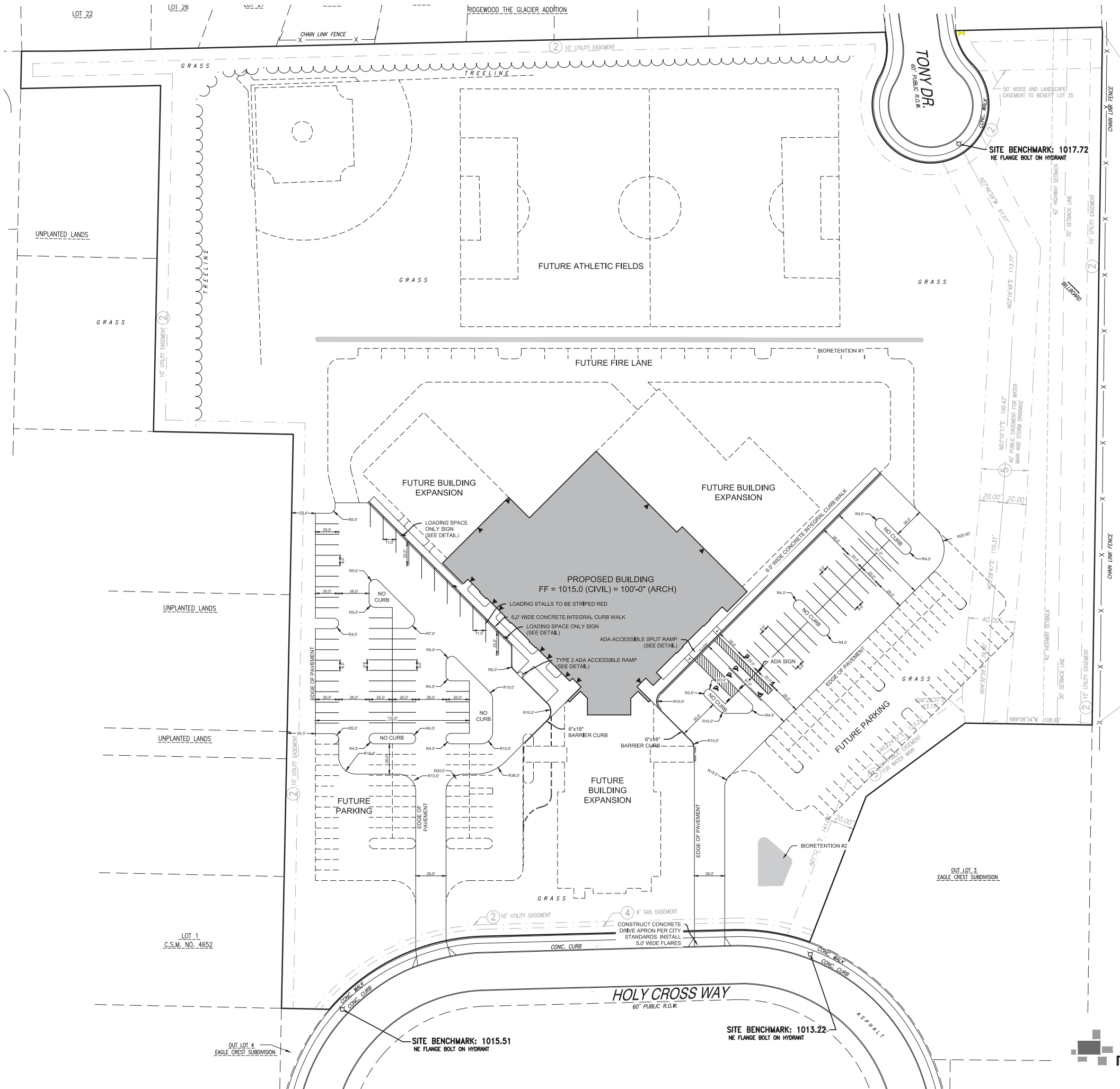
PLAN PREPARED BY:

PINNACLE ENGINEERING GROUP
ENGINEERING | NATURAL RESOURCES | SURVEYING

WISCONSIN OFFICE:
15500 W. BLUEMOUND ROAD
BROOKFIELD, WI 53005
(262) 794-8888

C1.0

2014-12-17 Set

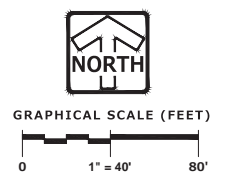


INTERSTATE HIGHWAYS 90, 94 & 39
R.O.W. WAIVES

INFORMATION ON THIS DRAWING TAKES PRECEDENCE OVER THE SPECIFICATIONS MANUAL IF THE DOCUMENTS HAVE CONFLICTING INFORMATION.

NO.	DATE	BY	DESCRIPTION

SITE PLAN



PLAN PREPARED BY: **PINNACLE ENGINEERING GROUP**
ENGINEERING | NATURAL RESOURCES | SURVEYING

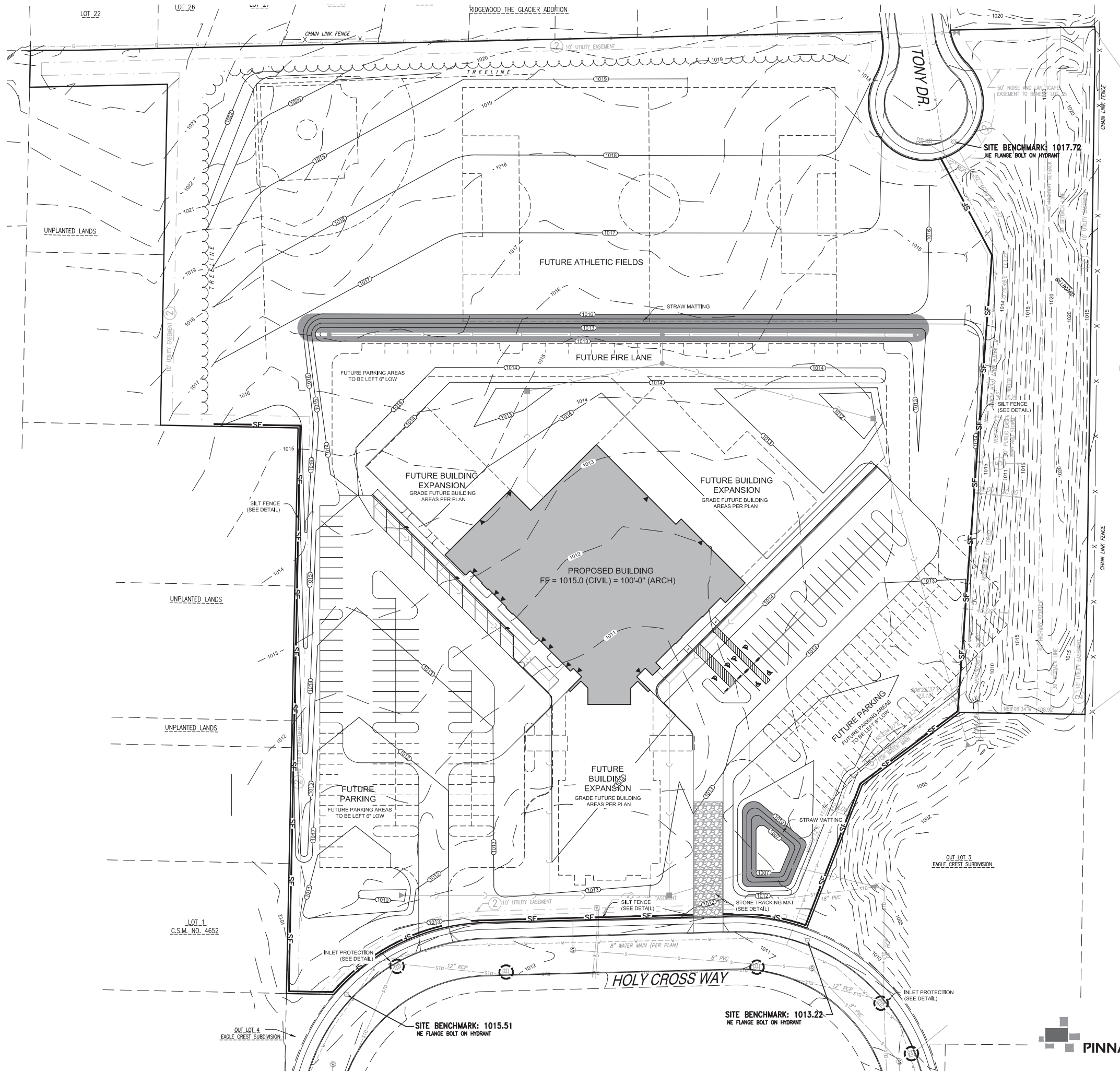
WISCONSIN OFFICE:
15800 W. BELLAMOUND ROAD
BROOKFIELD, WI 53005
(262) 754-8888

CHICAGO | MILWAUKEE | WATSONVILLE

SCALE: 1"=40' SHEET:
PROJECT #: 1203
DRWN BY: BDP
CHKD BY: AEK
DATE: 12/02/14

C2.0

2014-12-17 Set



LEGEND	
	STORM SEWER MANHOLE
	STORM SEWER CATCH BASIN
	CONTOUR
	SPOT ELEVATION
	SILT FENCE
	INLET PROTECTION

A2K
 A Subsidiary of Schroeder & Holt Architects

311 East Chicago Street
 Suite 310
 Milwaukee, WI 53202

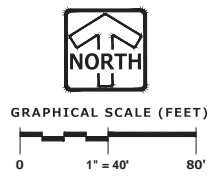
p. 414-227-2321
 E. 414-276-1764
 www.sha-a2k.com

HOLY CROSS LUTHERAN
 734 HOLY CROSS WAY
 MADISON, WI 53704

DEVELOPED BY:

INTERSTATE HIGHWAYS 90, 94 & 39

NO ACCESS



INFORMATION ON THIS DRAWING TAKES PRECEDENCE OVER THE SPECIFICATIONS MANUAL IF THE DOCUMENTS HAVE CONFLICTING INFORMATION.

NO.	DATE	BY	DESCRIPTION

GRADING & EROSION CONTROL PLAN

SCALE: 1"=40' SHEET:
 PROJECT #: 1203
 DRWN BY: BDP
 CHKD BY: AEK
 DATE: 12/02/14

C3.0

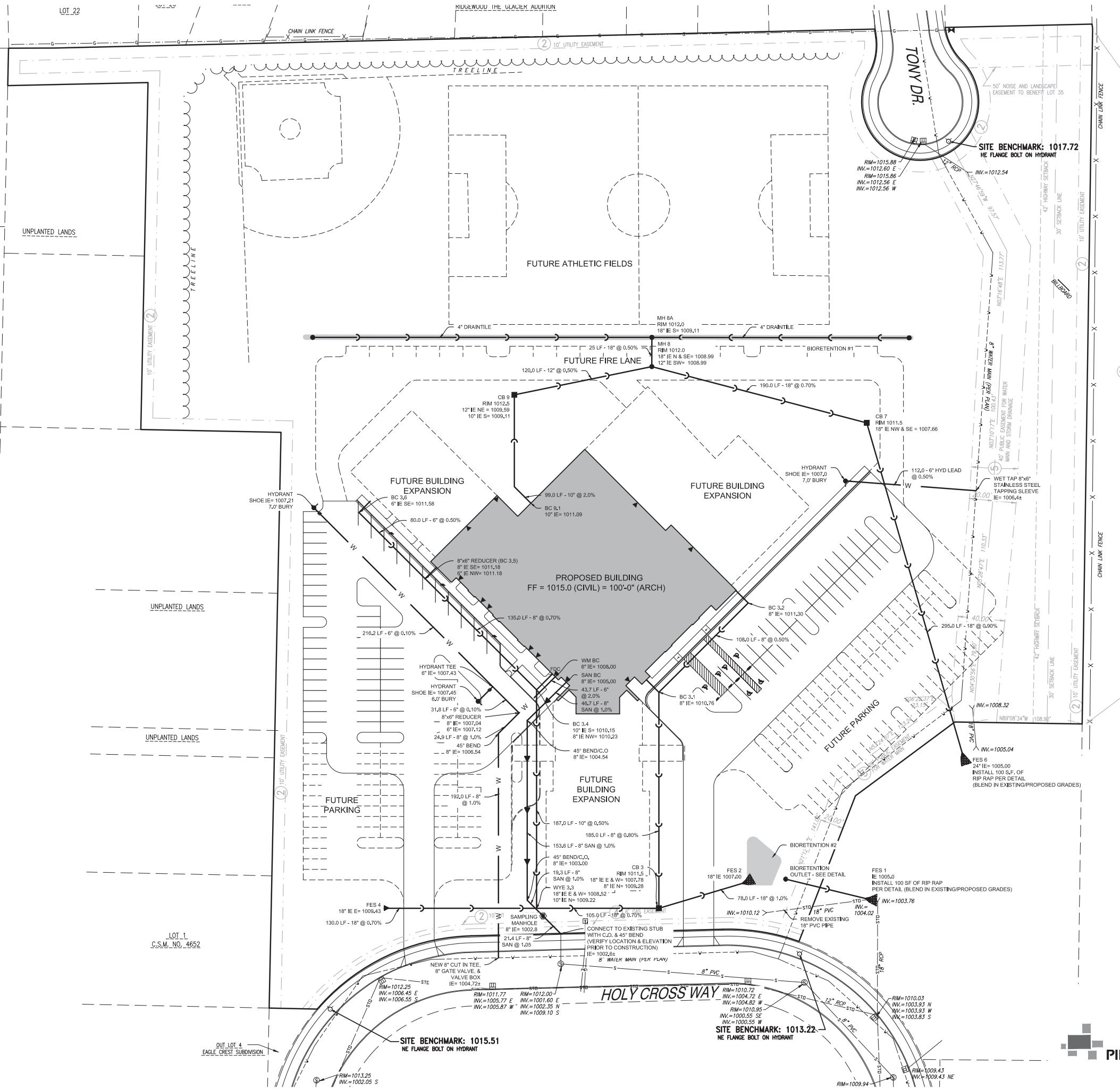
PLAN PREPARED BY: **PINNACLE ENGINEERING GROUP**
 ENGINEERING | NATURAL RESOURCES | SURVEYING

PI DESIGN | DELIVER
 www.pidesign.com

WISCONSIN OFFICE:
 1580 W. BLENHEIM ROAD
 BROOKFIELD, WI 53005
 (262) 754-8888

CHICAGO | MILWAUKEE | NATIONWIDE

2014-12-17 Set



LEGEND	
	SANITARY SEWER MANHOLE
	STORM SEWER MANHOLE
	STORM SEWER INLET- ROUND CASTING
	PRECAST FLARED END SECTION
	VALVE BOX
	FIRE HYDRANT
	SANITARY SEWER
	STORM SEWER
	WATER MAIN

A2K
A Subsidiary of Schroeder & Holt Architects

311 East Chicago Street
Suite 310
Milwaukee, WI 53202

p. 414-727-2321
E. 414-276-1764
www.sha-a2k.com

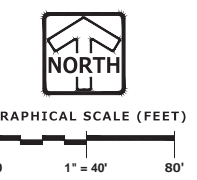
HOLY CROSS LUTHERAN
734 HOLY CROSS WAY
MADISON, WI 53704

DEVELOPED BY:

INTERSTATE HIGHWAYS 90, 94 & 39

INFORMATION ON THIS DRAWING TAKES PRECEDENCE OVER THE SPECIFICATIONS MANUAL IF THE DOCUMENTS HAVE CONFLICTING INFORMATION.

NO.	DATE	BY	DESCRIPTION



UTILITY PLAN

SCALE: 1"=40' SHEET:

PROJECT #: 1203

DRWN BY: BDP

CHKD BY: AEK

DATE: 12/02/14

PLAN PREPARED BY:
PINNACLE ENGINEERING GROUP
ENGINEERING | NATURAL RESOURCES | SURVEYING

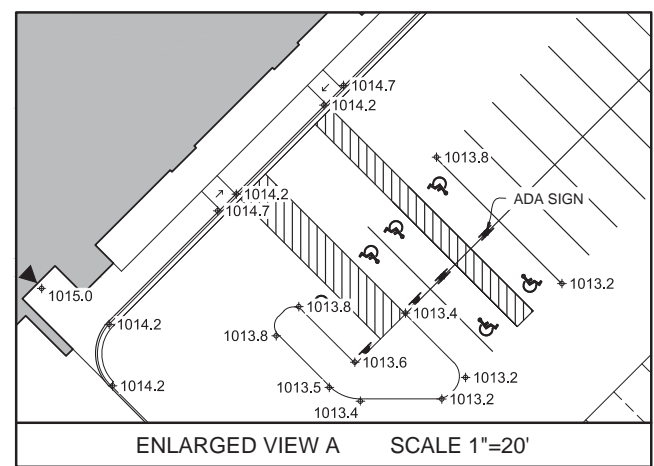
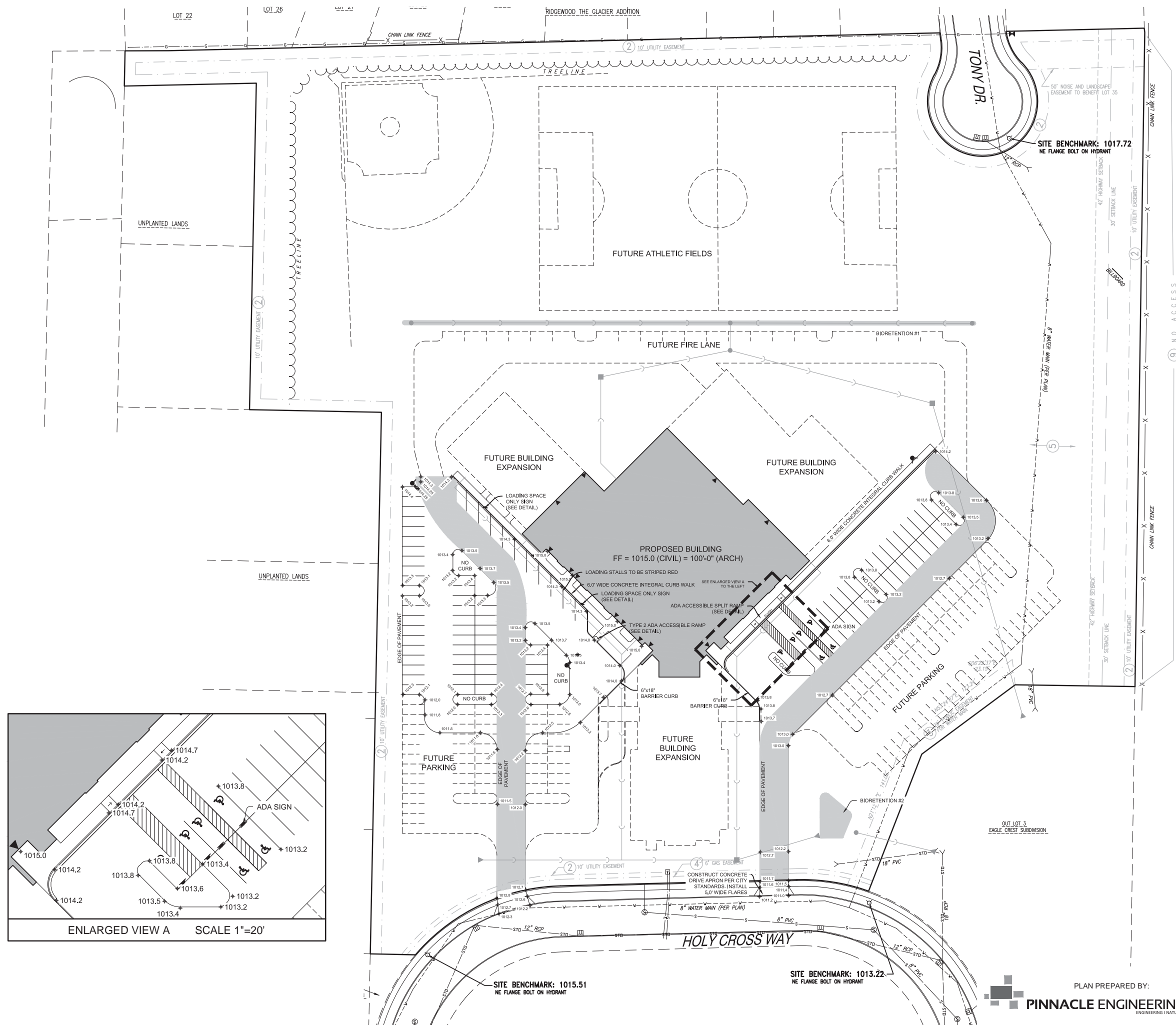
WISCONSIN OFFICE:
15800 W. BURNINGWOOD ROAD
BROOKFIELD, WI 53005
(262) 774-8888

CHICAGO | MILWAUKEE | WASHINGTON

C4.0

DEVELOPED BY:

INTERSTATE HIGHWAYS 90, 94 & 39



INFORMATION ON THIS DRAWING TAKES PRECEDENCE OVER THE SPECIFICATIONS MANUAL IF THE DOCUMENTS HAVE CONFLICTING INFORMATION.

NO.	DATE	BY	DESCRIPTION

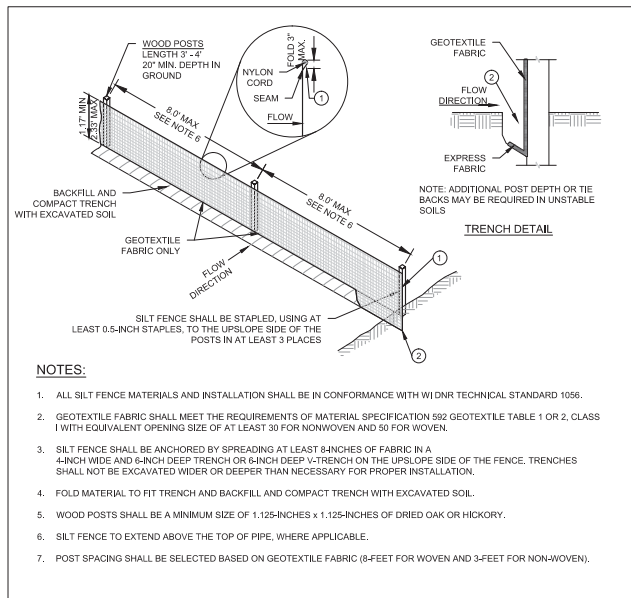
PAVING PLAN

SCALE: 1"=40' SHEET:
PROJECT #: 1203
DRWN BY: BDP
CHKD BY: AEK
DATE: 12/02/14

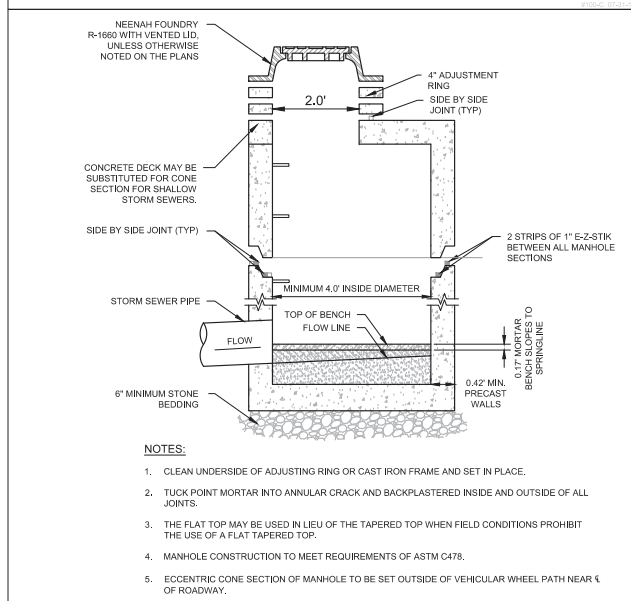
C5.0

2014-12-17 Set

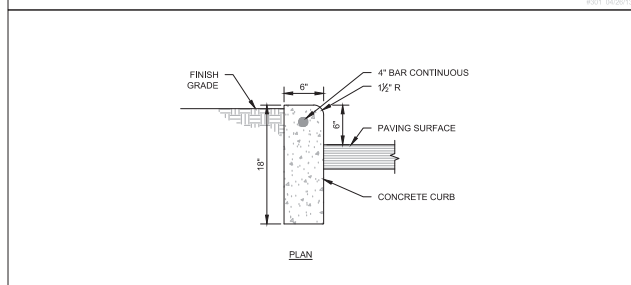
DEVELOPED BY:



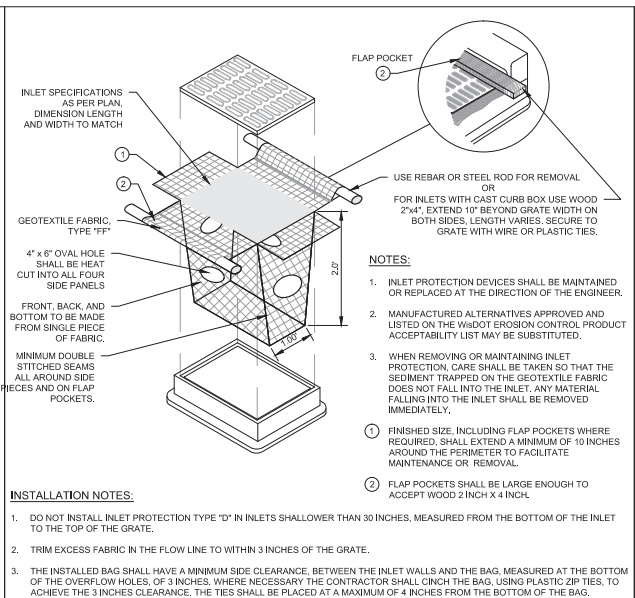
SILT FENCE



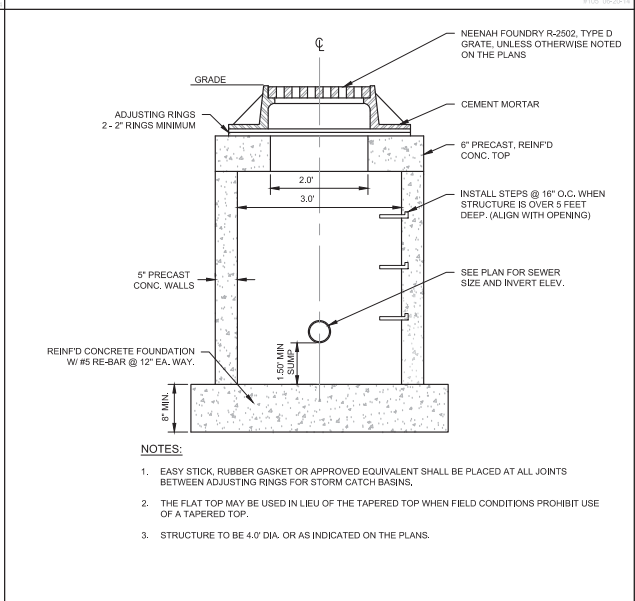
STORM SEWER MANHOLE



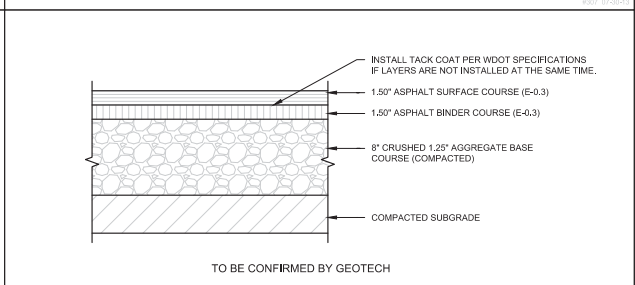
18" BARRIER CURB



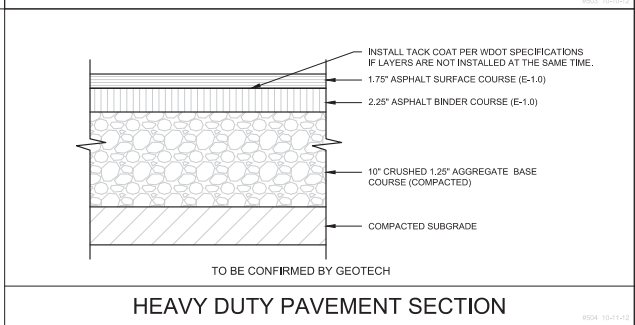
INLET PROTECTION



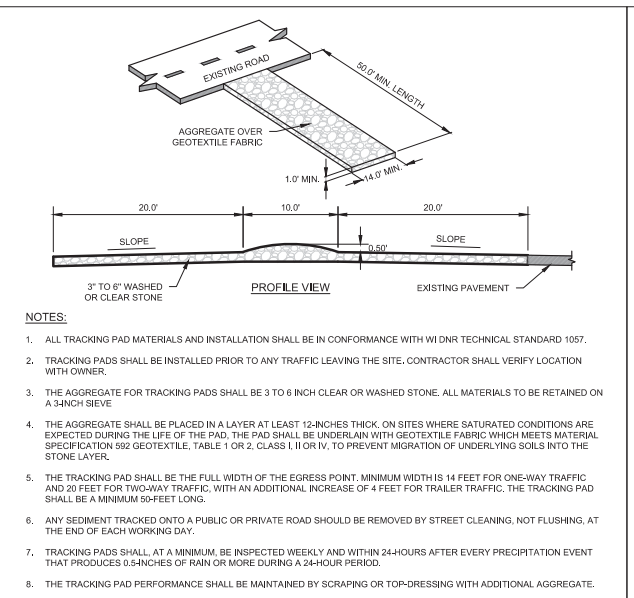
CATCH BASIN



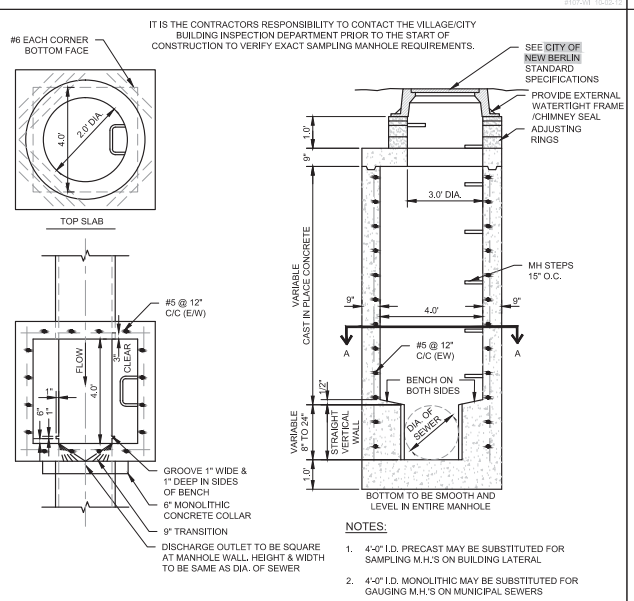
REGULAR DUTY PAVEMENT SECTION



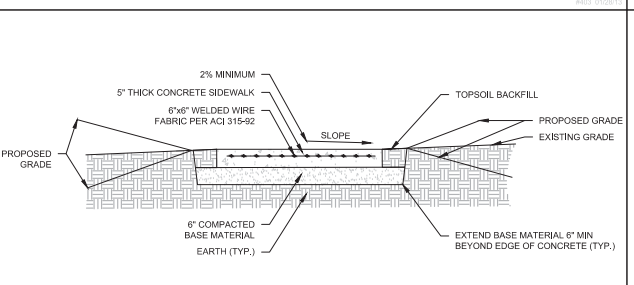
HEAVY DUTY PAVEMENT SECTION



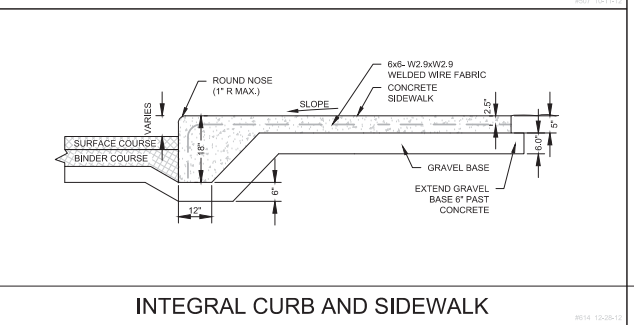
CONSTRUCTION ENTRANCE



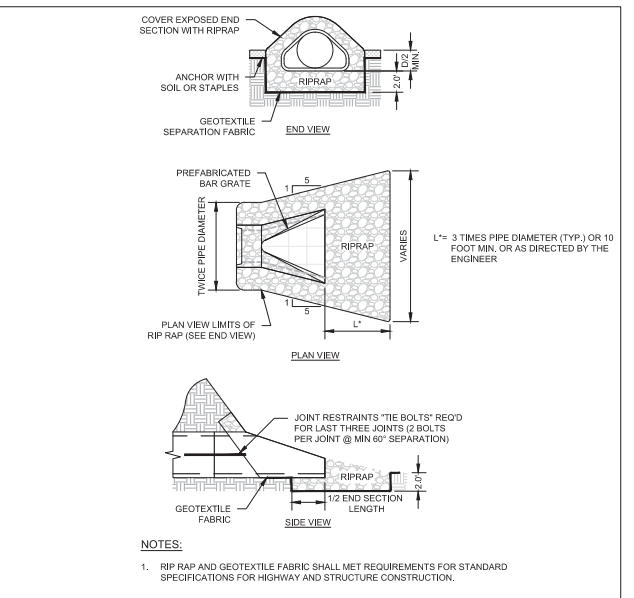
SAMPLING AND GAUGING MANHOLE



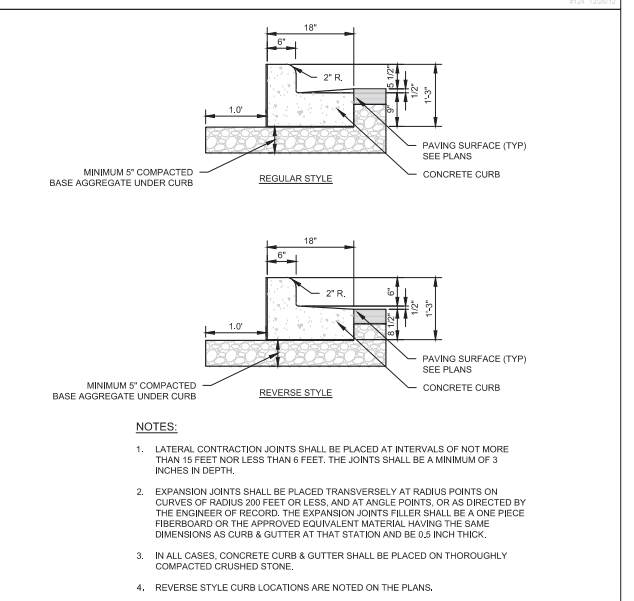
CONCRETE SIDEWALK



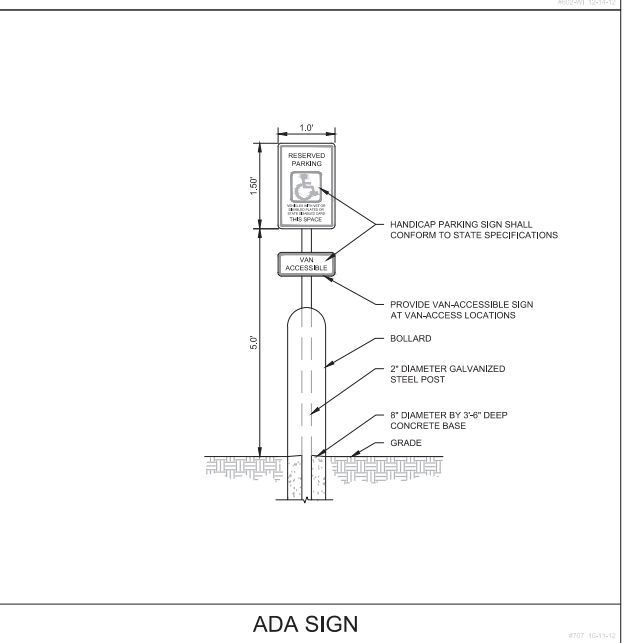
INTEGRAL CURB AND SIDEWALK



RIP RAP AT END SECTIONS



18" VERTICAL FACE CURB



ADA SIGN

INFORMATION ON THIS DRAWING TAKES PRECEDENCE OVER THE SPECIFICATIONS MANUAL IF THE DOCUMENTS HAVE CONFLICTING INFORMATION.

NO.	DATE	BY	DESCRIPTION

CONSTRUCTION DETAILS & SPECS

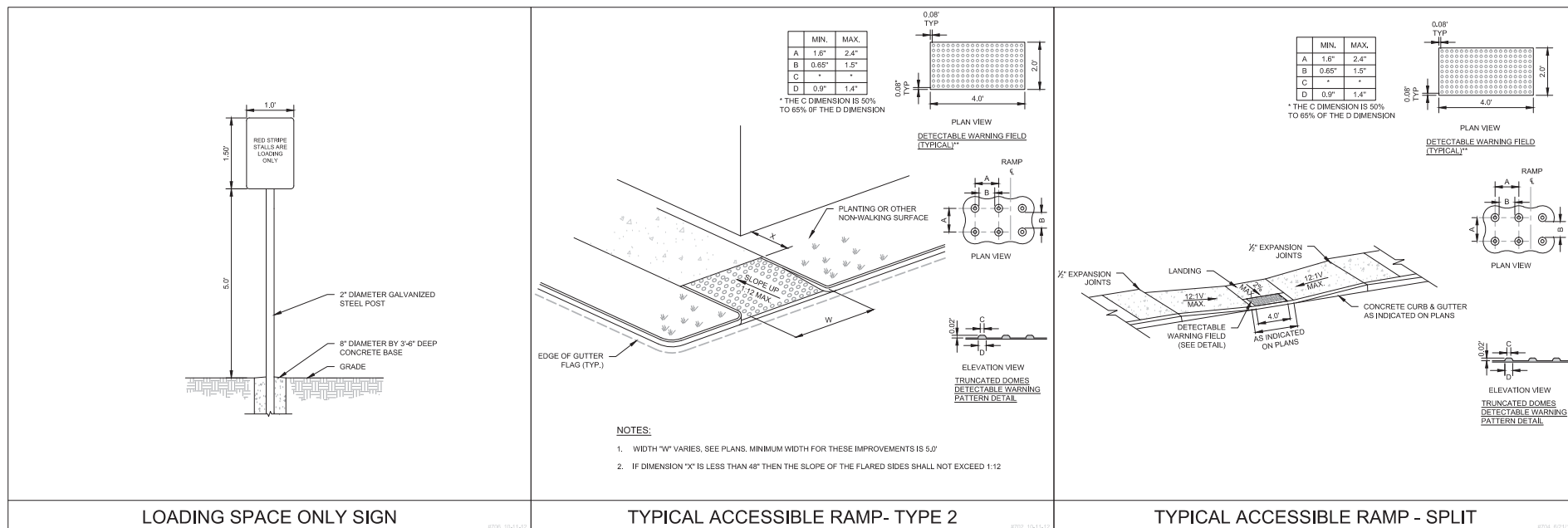
SCALE: 1"=40' SHEET:

PROJECT #: 1203

DRWN BY: BDP

CHKD BY: AEK

DATE: 12/02/14



GENERAL SPECIFICATIONS FOR CONSTRUCTION ACTIVITIES

- THE PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED ACCORDING TO THE WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION, THE STANDARD SPECIFICATIONS FOR SEWER & WATER IN WISCONSIN, AND WISCONSIN ADMINISTRATIVE CODE, SPS 380, 382-383, AND THE LOCAL ORDINANCES AND SPECIFICATIONS.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR EXECUTION OF THE WORK. THE CONTRACTOR SHALL CONDUCT HIS WORK ACCORDING TO THE REQUIREMENTS OF THE PERMITS.
- THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE MUNICIPALITY FORTY-EIGHT (48) HOURS PRIOR TO THE START OF CONSTRUCTION.
- THE MUNICIPALITY SHALL HAVE THE RIGHT TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION OF THE PUBLIC PORTIONS OF THE WORK. THE OWNER SHALL HAVE THE RIGHT TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION OF ALL PRIVATE PORTIONS OF THE WORK.
- THE CONTRACTOR SHALL INDEMNIFY THE OWNER, THE MUNICIPALITY, THEIR AGENTS, ETC. FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, AND TESTING OF THE WORK ON THIS PROJECT.
- SITE SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL UTILITY INFORMATION SHOWN ON THE PLANS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CALL DIGGERS HOTLINE AT 1-800-242-8511 TO NOTIFY THE UTILITIES OF HIS INTENTIONS, AND TO REQUEST FIELD STAKING OF EXISTING UTILITIES.
- SILT FENCE AND OTHER EROSION CONTROL FACILITIES MUST BE INSTALLED PRIOR TO CONSTRUCTION OR ANY OTHER LAND DISTURBING ACTIVITY. FOLLOW THE SEQUENCE OF CONSTRUCTION ON THE EROSION CONTROL PLAN FOR MORE DETAILS. INSPECTIONS SHALL BE MADE WEEKLY OR AFTER EVERY RAINFALL OF 0.5" OR MORE. REPAIRS SHALL BE MADE IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EROSION CONTROL FACILITIES ONCE THE THREAT OF EROSION HAS PASSED WITH THE APPROVAL OF THE GOVERNING AGENCY.
- ANY ADJACENT PROPERTIES OR ROAD RIGHT-OF-WAYS WHICH ARE DAMAGED DURING CONSTRUCTION MUST BE RESTORED BY THE CONTRACTOR.
- TRASH AND DEBRIS SHALL NOT BE ALLOWED TO ACCUMULATE ON THIS SITE AND THE SITE SHALL BE CLEAN UPON COMPLETION OF WORK.
- THE OWNER SHALL HAVE THE RIGHT TO HAVE ALL MATERIALS USED IN CONSTRUCTION TESTED FOR COMPLIANCE WITH THESE SPECIFICATIONS.

SPECIFICATIONS FOR GRADING & EROSION CONTROL

- THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE COMPUTATIONS OF ALL GRADING AND FOR ACTUAL LAND BALANCE, INCLUDING UTILITY TRENCH SPOIL. THE CONTRACTOR SHALL IMPORT OR EXPORT MATERIAL AS NECESSARY TO COMPLETE THE PROJECT. CONTRACTOR SHALL NOTIFY OWNER OF THE NEED TO IMPORT OR HAUL OFF SOIL. ON-SITE LOCATIONS SUITABLE FOR BORROW OR FILL MAY BE PRESENT. COORDINATE WITH OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SOIL CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. A GEOTECHNICAL REPORT MAY BE AVAILABLE FROM THE OWNER.
- SITE SHALL BE CLEARED TO THE LIMITS SHOWN ON THE PLANS. REMOVE VEGETATION FROM THE SITE. BURNING IS NOT PERMITTED. PROTECT TREES AND OTHER FEATURES FROM DAMAGE WITH FENCING. STOCKPILES SHALL NOT BE LOCATED CLOSER THAN 25' TO A DRAINAGE STRUCTURE OR FEATURE AND SHALL BE SURROUNDED WITH SILT FENCE.
- THE GEOTECHNICAL ENGINEER IS RESPONSIBLE FOR VERIFYING COMPACTION AND FILL PLACEMENT IN THE FIELD. THE GEOTECHNICAL ENGINEER MAY SUPERCEDE THESE SPECIFICATIONS IF THERE IS GOOD CAUSE TO DO SO. AN EXPLANATION MUST BE SUBMITTED TO THE ENGINEER IN WRITING BEFORE ANY DEVIATIONS ARE MADE.
- IF NO GEOTECHNICAL RECOMMENDATION IS AVAILABLE, THEN THE FOLLOWING SPECIFICATIONS SHALL APPLY. ALL FILL SHALL BE CONSIDERED STRUCTURAL FILL AND SHALL BE PLACED IN ACCORDANCE WITH THE FOLLOWING: THE COMPACTED FILL SUBGRADE SHALL CONSIST OF AND SHALL BE UNDERLAIN BY SUITABLE BEARING MATERIALS, FREE OF ALL ORGANIC, FROZEN OR OTHER DELETERIOUS MATERIAL AND INSPECTED AND APPROVED BY THE RESIDENT GEOTECHNICAL ENGINEER. PREPARATION OF THE SUBGRADE, AFTER STRIPPING, SHALL CONSIST OF PROOF-ROLLING TO DETECT UNSTABLE AREAS THAT MIGHT BE UNDERCUT, AND COMPACTING THE SCARIFIED SURFACE TO THE SAME MINIMUM DENSITY INDICATED BELOW. THE COMPACTED FILL MATERIALS SHALL BE FREE OF ANY DELETERIOUS, ORGANIC OR FROZEN MATTER AND SHALL HAVE A MAXIMUM LIQUID LIMIT (ASTM D-293) AND PLASTICITY INDEX (ASTM D-425) OF 30 AND 10 RESPECTIVELY UNLESS SPECIFICALLY TESTED AND FOUND TO HAVE LOW EXPANSIVE PROPERTIES AND APPROVED BY AN EXPERIENCED SOILS ENGINEER. THE TOP TWELVE (12) INCHES OF COMPACTED FILL SHOULD HAVE A MAXIMUM THREE (3) INCH PARTICLE DIAMETER AND ALL UNDERLYING COMPACTED FILL A MAXIMUM SIX (6) INCH PARTICLE DIAMETER UNLESS SPECIFICALLY APPROVED BY AN EXPERIENCED SOILS ENGINEER. ALL FILL MATERIAL MUST BE TESTED AND APPROVED UNDER THE DIRECTION AND SUPERVISION OF AN EXPERIENCED SOILS ENGINEER PRIOR TO PLACEMENT. IF THE FILL IS TO PROVIDE NON-FROST SUSCEPTIBLE CHARACTERISTICS, IT MUST BE CLASSIFIED AS A CLEAN GW, GP, SW, OR SP PER UNITED SOIL CLASSIFICATION SYSTEM (ASTM D-2487). FOR STRUCTURAL FILL THE DENSITY OF THE STRUCTURAL COMPACTED FILL AND SCARIFIED SUBGRADE AND GRADES SHALL NOT BE LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR (ASTM D-998) WITH THE EXCEPTION TO THE TOP 12 INCHES OF PAVEMENT SUBGRADE WHICH SHALL A MINIMUM IN-SITU DENSITY OF 100 PERCENT OF THE MAXIMUM DRY DENSITY, OR 5 PERCENT HIGHER THAN UNDERLYING FILL MATERIALS. THE MOISTURE CONTENT OF COHESIVE SOIL SHALL NOT VARY BY MORE THAN -1 TO +3 PERCENT AND GRANULAR SOIL 33 PERCENT OF OPTIMUM WHEN PLACED AND COMPACTED OR RECOMPACTED, UNLESS SPECIFICALLY APPROVED BY THE SOILS ENGINEER TAKING INTO CONSIDERATION THE TYPE OF MATERIALS AND COMPACTION EQUIPMENT BEING USED. THE COMPACTION EQUIPMENT SHOULD CONSIST OF SUITABLE MECHANICAL EQUIPMENT SPECIFICALLY DESIGNED FOR SOIL COMPACTION. BULLDOZERS OR SIMILAR TRACKED VEHICLES ARE TYPICALLY NOT SUITABLE FOR COMPACTION. MATERIAL THAT IS TOO WET TO PERMIT PROPER COMPACTION MAY BE SPREAD ON THE FILL AND PERMITTED TO DRY. DISCING, HARROWING OR PULVERIZING MAY BE NECESSARY TO REDUCE THE MOISTURE CONTENT TO A SATISFACTORY VALUE. AFTER WHICH IT SHALL BE COMPACTED. THE FINISHED SUBGRADE AREAS OF THE SITE SHALL BE COMPACTED TO 100 PERCENT OF THE STANDARD PROCTOR (ASTM D-998) MAXIMUM DENSITY.
- NO FILL SHALL BE PLACED ON A WET OR SOFT SUBGRADE. THE SUBGRADE SHALL BE PROOF-ROLLED AND INSPECTED BY THE GEOTECHNICAL ENGINEER BEFORE ANY MATERIAL IS PLACED.
- SUBGRADE TOLERANCES ARE +/-1" FOR LANDSCAPE AREAS AND +/-1/2" FOR ALL PAVEMENT AND BUILDING AREAS.
- TOPSOIL SHALL BE FREE OF DELETERIOUS MATERIALS, ROOTS, OLD VEGETATION, ROCKS OVER 2" DIAMETER AND SHALL NOT BE EXCESSIVELY CLAYEY IN NATURE. NO CLUMPS LARGER THAN 4" ARE ACCEPTABLE. TOPSOIL MAY BE AMENDED AS NEEDED WITH SAND OR COMPOST TO BE LOOSE WHEN SPREAD.
- THE CONTRACTOR SHALL MAINTAIN SITE DRAINAGE THROUGHOUT CONSTRUCTION. THIS MAY INCLUDE THE EXCAVATION OF TEMPORARY DITCHES OR PUMPING TO ALLEVIATE WATER PONDING. ANY DEWATERING SHALL NOT GO DIRECTLY TO STREAMS, CREEKS, WETLANDS OR OTHER ENVIRONMENTALLY SENSITIVE AREAS WITHOUT BEING TREATED FIRST. A DIRT BAG OR OTHER DEWATERING TREATMENT DEVICE MAY BE USED TO CAPTURE SEDIMENT FROM THE PUMPED WATER.
- CONTRACTOR IS ADVISED THAT ALL MUD AND DEBRIS MUST NOT BE DEPOSITED ONTO THE ADJACENT ROADWAYS PER THE REQUIREMENT OF THE MUNICIPALITY OR OTHER APPROPRIATE GOVERNMENT AGENCIES. IN THE EVENT THIS OCCURS, THE ROADWAYS SHALL BE POWER SWEEP IMMEDIATELY AND ALL SEDIMENT REMOVED FROM DOWNSTREAM FACILITIES.

SPECIFICATIONS FOR PRIVATE UTILITIES

- BEFORE PROCEEDING WITH ANY UTILITY CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE EACH EXISTING LATERAL OR POINT OF CONNECTION AND VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES. IF ANY EXISTING UTILITIES ARE NOT AS SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY FOR POSSIBLE REDESIGN.
- ALL CONNECTIONS TO EXISTING PIPES AND MANHOLES SHALL BE CORED CONNECTIONS. CONNECTIONS TO WATERMAIN SHALL BE WET TAPED WITH A STAINLESS STEEL TAPPING SLEEVE.
- PROPOSED SANITARY SEWER AND INTERNALLY CONNECTED STORM SEWER SHOWN ON THIS PLAN SHALL TERMINATE AT A POINT FIVE (5) FEET FROM THE EXTERIOR BUILDING WALL, THE EXACT LOCATION OF ALL DOWN SPOUTS CONNECTIONS SHALL BE PER THE ARCHITECTURAL PLANS.
- CONTRACTOR SHALL NOT SHUT OFF WATER OR PLUG SANITARY SEWER IN MUNICIPAL LINES WITHOUT PRIOR APPROVAL.
- MATERIALS FOR STORM SEWER SHALL BE AS FOLLOWS: STORM SEWER PIPE 48" OR LESS SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) CORRUGATED PIPE WITH AN INTEGRALLY FORMED SMOOTH WATERWAY SUCH AS ADS N-12. FOR PIPE 10" OR LESS IN DIAMETER, PVC, ASTM D-3034, SDR-26, MAY ALSO BE USED. WHERE SPECIFICALLY REQUIRED, REINFORCED CONCRETE PIPE (RCP), ASTM C-76, CLASS II OR HIGHER, MAY BE USED. TRENCH SECTION SHALL BE CLASS "B" FOR PVC AND HDPE AND CLASS "C" FOR CONCRETE. MANHOLES, INLETS AND CATCH BASINS SHALL BE PRE-CAST REINFORCED CONCRETE, ASTM C-478. CASTINGS SHALL BE HEAVY DUTY CAST IRON. AREA DRAINS SHALL BE ADS NYLOPLAST OR EQUIVALENT AND SHALL BE A MINIMUM OF 24" IN DIAMETER. CONNECTIONS TO EXISTING PIPES SHALL BE MADE WITH INSERTA WYE OR EQUIVALENT.
- MATERIALS FOR SANITARY SEWER SHALL BE AS FOLLOWS: SANITARY SEWER SHALL BE PVC, ASTM D-3034, SDR-35 WITH RUBBER GASKETED JOINTS, CONFORMING TO ASTM D-3212. TRENCH SECTIONS SHALL BE CLASS "B" BEDDING. CRUSHED STONE CHIPS SHALL BE USED FOR BEDDING MATERIAL. CONNECTIONS SHALL BE MADE WITH AN INSERTA WYE OR EQUIVALENT. A MINIMUM OF 6" OF COVER IS REQUIRED FOR ALL SANITARY SEWER.
- MATERIALS FOR WATER SERVICES AND PRIVATE HYDRANTS SHALL BE AS FOLLOWS: WATER SERVICES SHALL BE PVC, HDPE, OR DI AS ALLOWED BY MUNICIPAL CODE. PVC SHALL BE AWWA C-900, DI SHALL BE AWWA C191, CLASS 52 (OR AS REQUIRED BY LOCAL CODE). TRENCH SECTIONS SHALL BE CLASS "B" BEDDING. CRUSHED STONE CHIPS SHALL BE USED FOR BEDDING MATERIAL. CONNECTION SHALL BE MADE WITH A WET TAP. CORPORATE STOP AND VALVE BOX PER MUNICIPAL STANDARDS. A MINIMUM OF 6" COVER IS REQUIRED FOR ALL WATERMAIN. VALVES SHALL BE NONRISING STEM, RESILIENT SEATED GATE VALVES COMPLYING WITH AWWA C509 WITH A THREE PIECE CAST IRON VALVE BOX. INSTALL THRUST BLOCKS AT ALL BENDS AND TEES. DISINFECT ALL NEW LINES AND OBTAIN SAFE WATER SAMPLE PRIOR TO USE.
- EXTREME CAUTION MUST BE FOLLOWED REGARDING THE COMPACTION OF ALL UTILITY TRENCHES. MECHANICALLY COMPACTED GRANULAR BACKFILL IS REQUIRED UNDER & WITHIN 5 FEET OF ALL PAVEMENT INCLUDING SIDEWALKS. FLOODING OF BACKFILL MATERIAL IS NOT ALLOWED.
- TRACER WIRE (NO. 8 SINGLE STRAND COPPER) AND WARNING TAPE SHALL BE INSTALLED ON ALL UTILITIES IN ACCORDANCE WITH THE LOCAL AND STATE CODES. TRACER WIRE SHALL TERMINATE IN A VALVECO TERMINAL BOX AT EACH END.
- MANDREL TESTING ON SANITARY LINES AND PRESSURE TESTING ON WATERMAIN MAY BE REQUIRED BY THE OWNER OR MUNICIPALITY.
- UPON COMPLETION OF FINAL PAVING OPERATIONS, THE UTILITY CONTRACTOR SHALL ADJUST ALL MANHOLE AND INLET RIMS AND VALVE BOXES TO FINISHED GRADE.

SPECIFICATIONS FOR PAVING

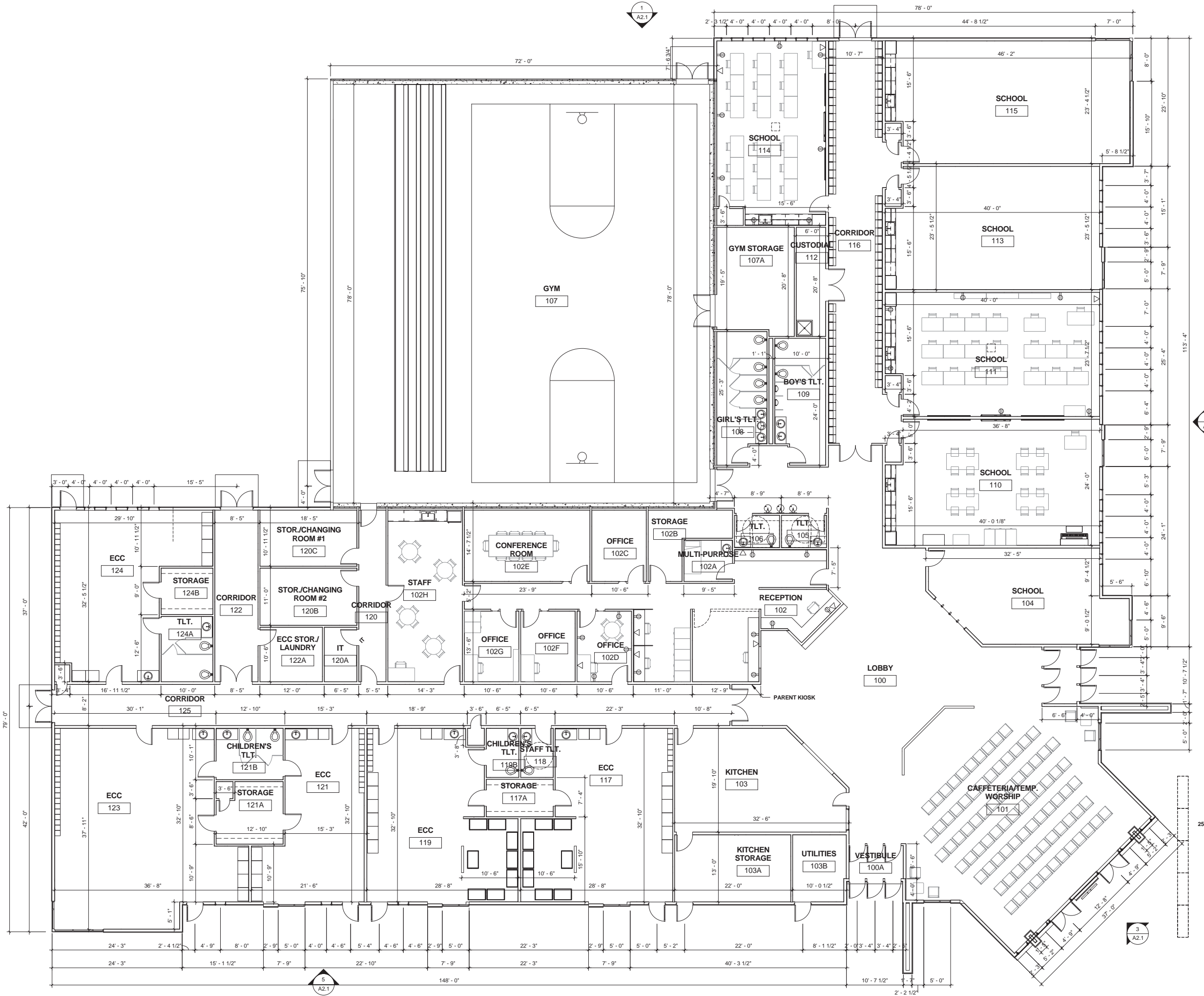
- AGGREGATES USED IN THE CRUSHED STONE BASE SHALL CONFORM TO THE GRADATION REQUIREMENTS SECTIONS 301.2 AND 305.2.2 OF THE STANDARD SPECIFICATIONS. THICKNESS SHALL BE PER THE DETAIL ON THE PLANS. BASE SHALL BE 1/2 INCH DIAMETER UNLESS NOTED OTHERWISE. RECYCLED MATERIALS MAY BE ALLOWED WITH APPROVAL FROM THE OWNER.
- SUBGRADE SHALL BE PROOF-ROLLED AND APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF STONE BASE. EXCAVATE UNSUITABLE AREAS AND REPLACE WITH BREAKER RUN STONE AND RECOMPACT. REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL SPECIFICATIONS.
- EXISTING PAVEMENT SHALL BE SAWCUT IN NEAT STRAIGHT LINES TO FULL DEPTH AT ANY POINT WHERE EXISTING PAVEMENT IS REMOVED. CURB AND WALK SHALL BE REMOVED TO THE NEAREST JOINT. REMOVED PAVEMENT SHALL BE REPLACED WITH THE SAME SECTION AS EXISTING. MUNICIPAL STANDARDS MAY REQUIRE ADDITIONAL WORK.
- ASPHALT FOR PARKING AREAS AND THE PRIVATE ROAD SHALL BE PER THE DETAILS MATERIALS AND PLACEMENT SHALL CONFORM TO THE DOT STANDARD SPECIFICATIONS. SECTION 450 AND 460 TYPE E-0.3 IS REQUIRED UNLESS NOTED OTHERWISE. A COMMERCIAL GRADE MIX MAY BE SUBSTITUTED ONLY WITH APPROVAL FROM THE OWNER.
- CONCRETE FOR CURB, DRIVEWAY, WALKS AND NON-FLOOR SLABS SHALL CONFORM TO SECTION 415 OF THE STANDARD SPECIFICATIONS. GRADE A, ASTM C-94, 6 BAG MIX, WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,500 PSI. JOINTING SHALL BE PER SECTION 415.3.7 OF THE STANDARD SPECIFICATIONS WITH CONSTRUCTION JOINTS HAVING A MAXIMUM SPACING OF 10'. EXPANSION JOINTS SHALL BE PROVIDED EVERY 50'. CONCRETE SHALL BE FINISHED PER SECTION 415.3.8 WITH A MEDIUM BROOM TEXTURE. A CURING MEMBRANE IN CONFORMANCE WITH SECTION 415.3.12 IS REQUIRED.

INFORMATION ON THIS DRAWING TAKES PRECEDENCE OVER THE SPECIFICATIONS MANUAL IF THE DOCUMENTS HAVE CONFLICTING INFORMATION.

NO.	DATE	BY	DESCRIPTION

CONSTRUCTION DETAILS & SPECS

SCALE: 1"=40' SHEET:
PROJECT #: 1203
DRWN BY: BDP
CHKD BY: AEK
DATE: 12/02/14



INFORMATION ON THIS DRAWING TAKES PRECEDENCE OVER THE SPECIFICATIONS MANUAL IF THE DOCUMENTS HAVE CONFLICTING INFORMATION.

NO.	DATE	BY	DESCRIPTION
	12/16/14	DCB	PLAN COMMISSION

OVERALL FIRST FLOOR PLAN

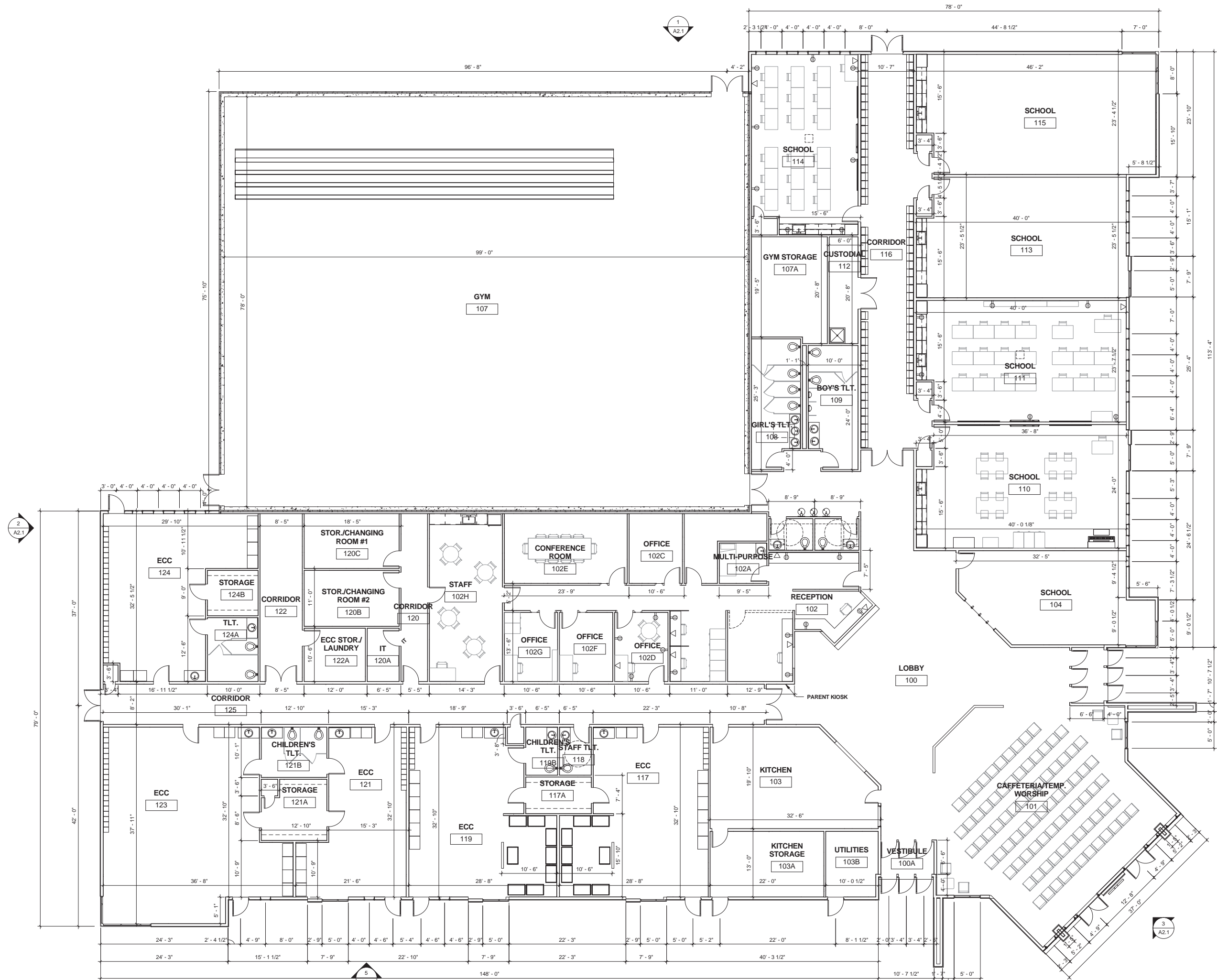
SCALE: 1/8" = 1'-0" SHEET:
PROJECT #: 1203
DRWN BY: B&B
CHKD BY: DCB
DATE:

A1.0



HOLY CROSS LUTHERAN
734 HOLY CROSS WAY
MADISON, WI

DEVELOPED BY:
HOLY CROSS LUTHERAN



INFORMATION ON THIS DRAWING TAKES PRECEDENCE OVER THE SPECIFICATIONS MANUAL IF THE DOCUMENTS HAVE CONFLICTING INFORMATION.

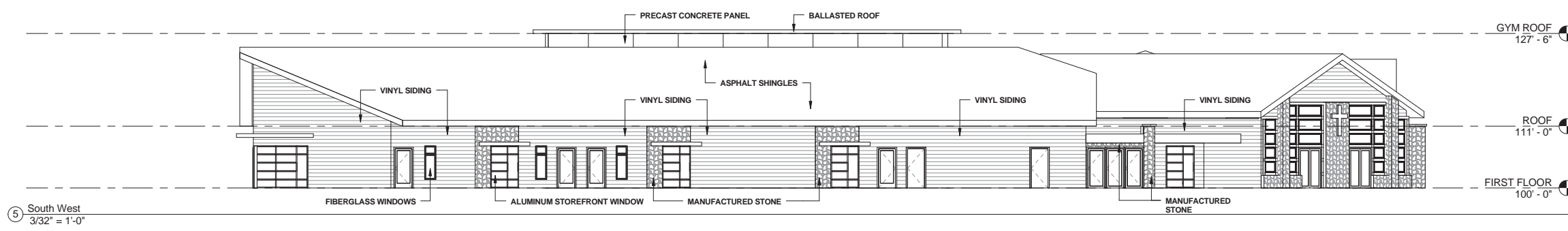
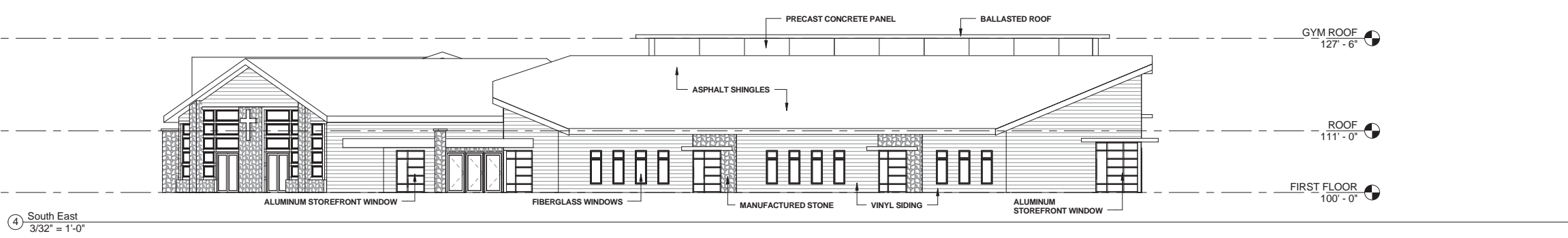
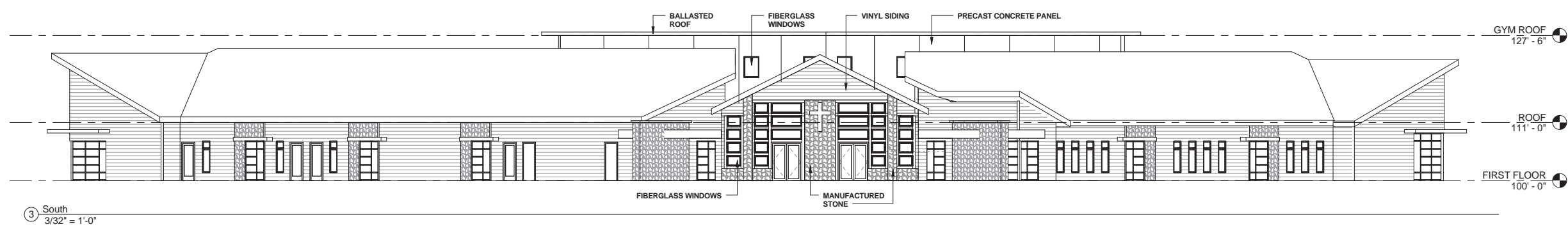
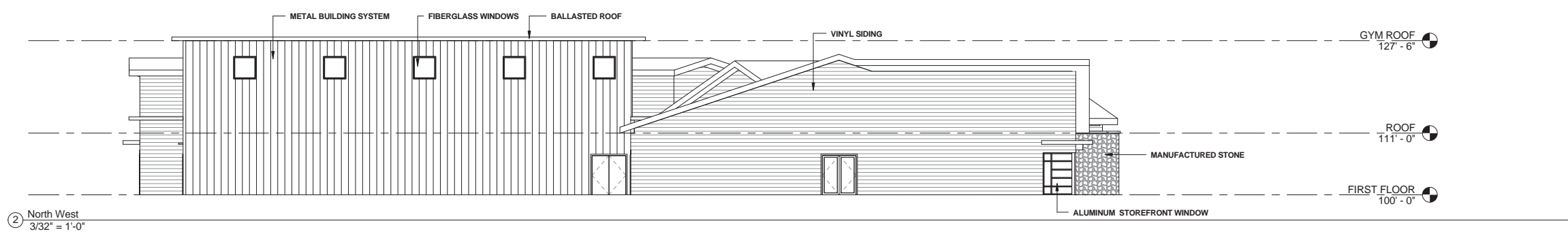
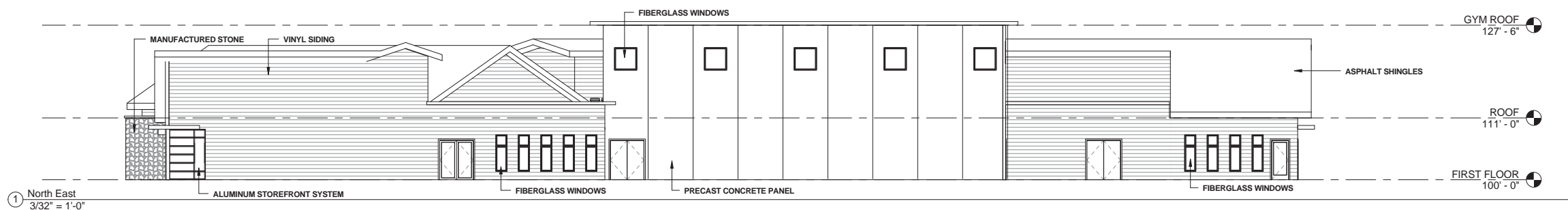
NO.	DATE	BY	DESCRIPTION

ADD ALTERNATE - FULL SIZE GYM

SCALE: 1/8" = 1'-0" SHEET:
PROJECT #: 1203
DRAWN BY: B&B
CHKD BY: DCB
DATE: _____

A1.1



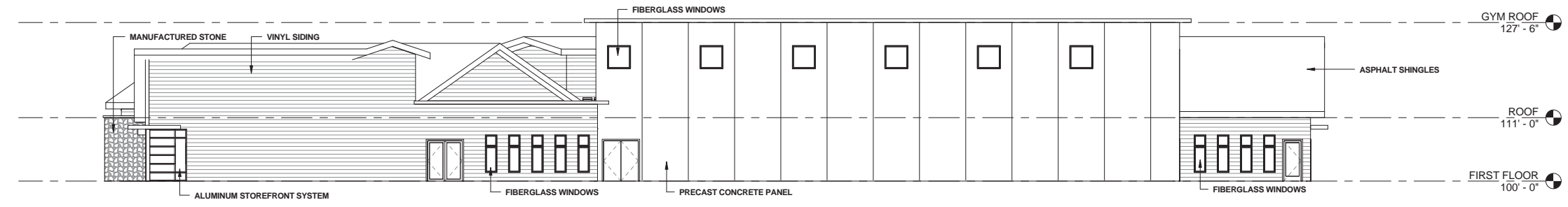


INFORMATION ON THIS DRAWING TAKES PRECEDENCE OVER THE SPECIFICATIONS MANUAL IF THE DOCUMENTS HAVE CONFLICTING INFORMATION.

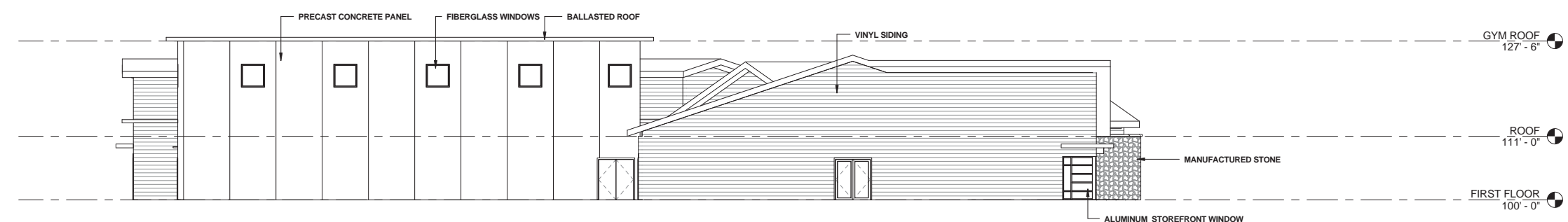
NO.	DATE	BY	DESCRIPTION
	12/16/14	DCB	PLAN COMMISSION

EXTERIOR ELEVATIONS

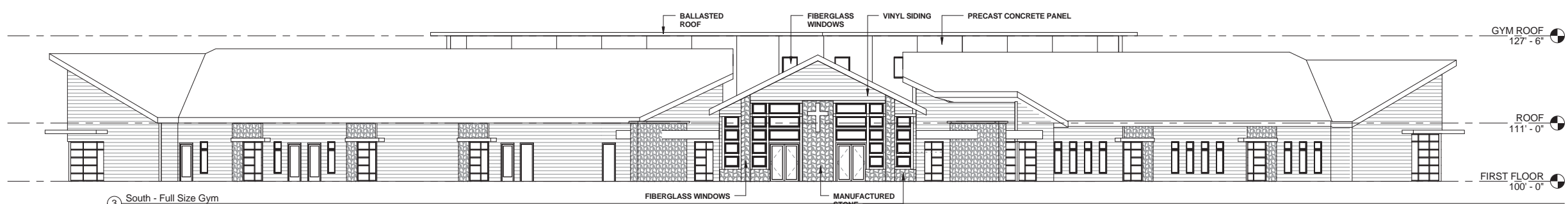
SCALE: 3/32" = 1'-0" SHEET:
PROJECT #: 1203
DRWN BY: B&B
CHKD BY: DCB
DATE:



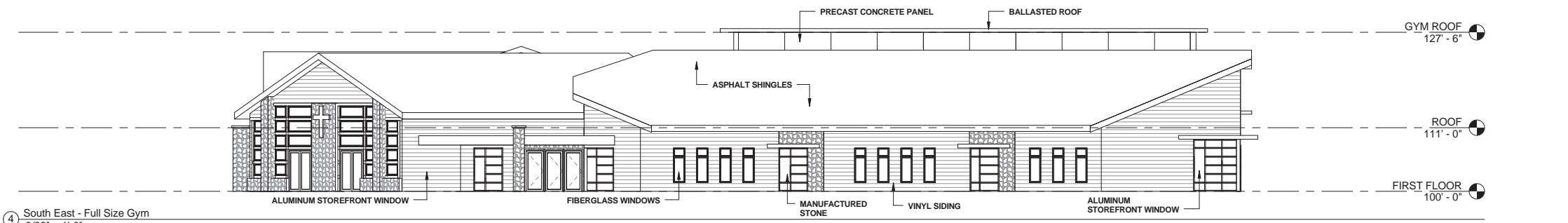
① North East - Full Size Gym
3/32" = 1'-0"



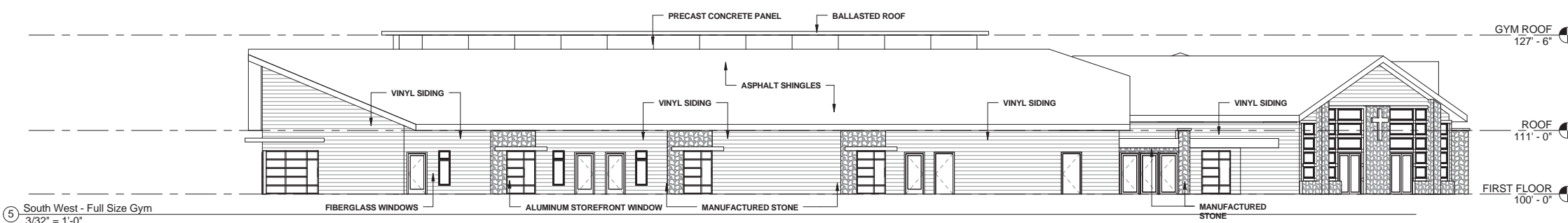
② North West - Full Size Gym
3/32" = 1'-0"



③ South - Full Size Gym
3/32" = 1'-0"



④ South East - Full Size Gym
3/32" = 1'-0"



⑤ South West - Full Size Gym
3/32" = 1'-0"

INFORMATION ON THIS DRAWING TAKES PRECEDENCE OVER THE SPECIFICATIONS MANUAL IF THE DOCUMENTS HAVE CONFLICTING INFORMATION.

NO.	DATE	BY	DESCRIPTION

**EXT. ELEVATIONS
FULL GYM**

SCALE: 3/32" = 1'-0" SHEET:
PROJECT #: 1203
DRWN BY: B&B
CHKD BY: DCB
DATE:



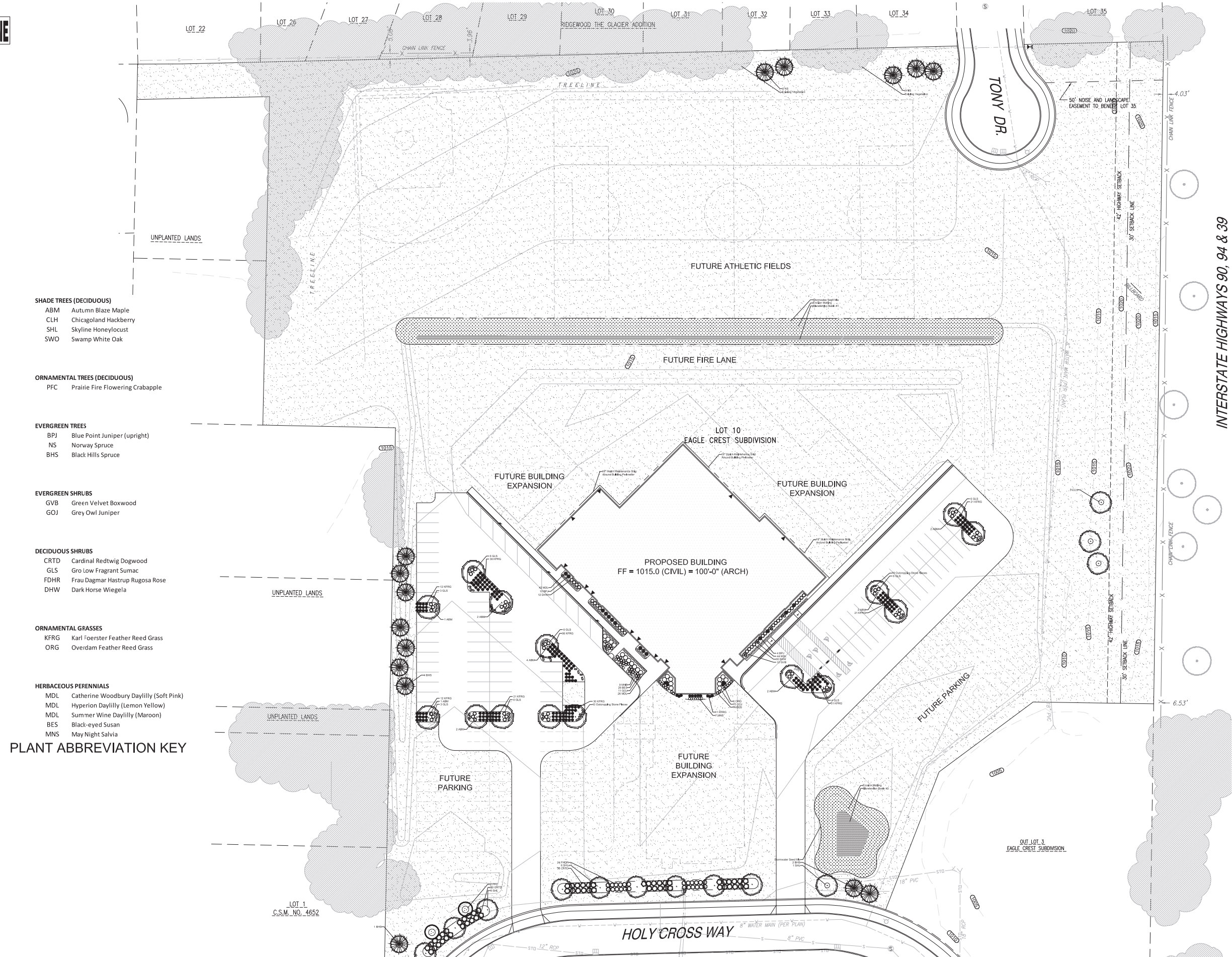
CALL DIGGERS HOTLINE
 800-442-9911
 414-276-1764
 414-276-1764
 414-276-1764
 414-276-1764



311 East Chicago Street
 Suite 310
 Milwaukee, WI 53202

HOLY CROSS LUTHERAN
 734 HOLY CROSS WAY
 MADISON, WI 53704

DEVELOPED BY:



- SHADE TREES (DECIDUOUS)**
- ABM Autumn Blaze Maple
 - CLH Chicagoland Hackberry
 - SHL Skyline Honeylocust
 - SWO Swamp White Oak

- ORNAMENTAL TREES (DECIDUOUS)**
- PFC Prairie Fire Flowering Crabapple

- EVERGREEN TREES**
- BPJ Blue Point Juniper (upright)
 - NS Norway Spruce
 - BHS Black Hills Spruce

- EVERGREEN SHRUBS**
- GVB Green Velvet Boxwood
 - GOJ Grey Owl Juniper

- DECIDUOUS SHRUBS**
- CRTD Cardinal Redtwig Dogwood
 - GLS Gro Low Fragrant Sumac
 - FDHR Frau Dagmar Hastrup Rugosa Rose
 - DHW Dark Horse Wiegela

- ORNAMENTAL GRASSES**
- KFRG Karl Foerster Feather Reed Grass
 - ORG Overdam Feather Reed Grass

- HERBACEOUS PERENNIALS**
- MDL Catherine Woodbury Daylily (Soft Pink)
 - MDL Hyperion Daylily (Lemon Yellow)
 - MDL Summer Wine Daylily (Maroon)
 - BES Black-eyed Susan
 - MNS May Night Salvia

PLANT ABBREVIATION KEY

INTERSTATE HIGHWAYS 90, 94 & 39

INFORMATION ON THIS DRAWING TAKES
 PRECEDENCE OVER THE SPECIFICATIONS
 MANUAL IF THE DOCUMENTS HAVE
 CONFLICTING INFORMATION.

NO.	DATE	BY	DESCRIPTION

OVERALL LANDSCAPE PLAN

SCALE: SHEET:
 PROJECT #: 1203
 DRAWN BY: BAP
 CHECKED BY: DCP
 DATE: 12.15.14

L1.0

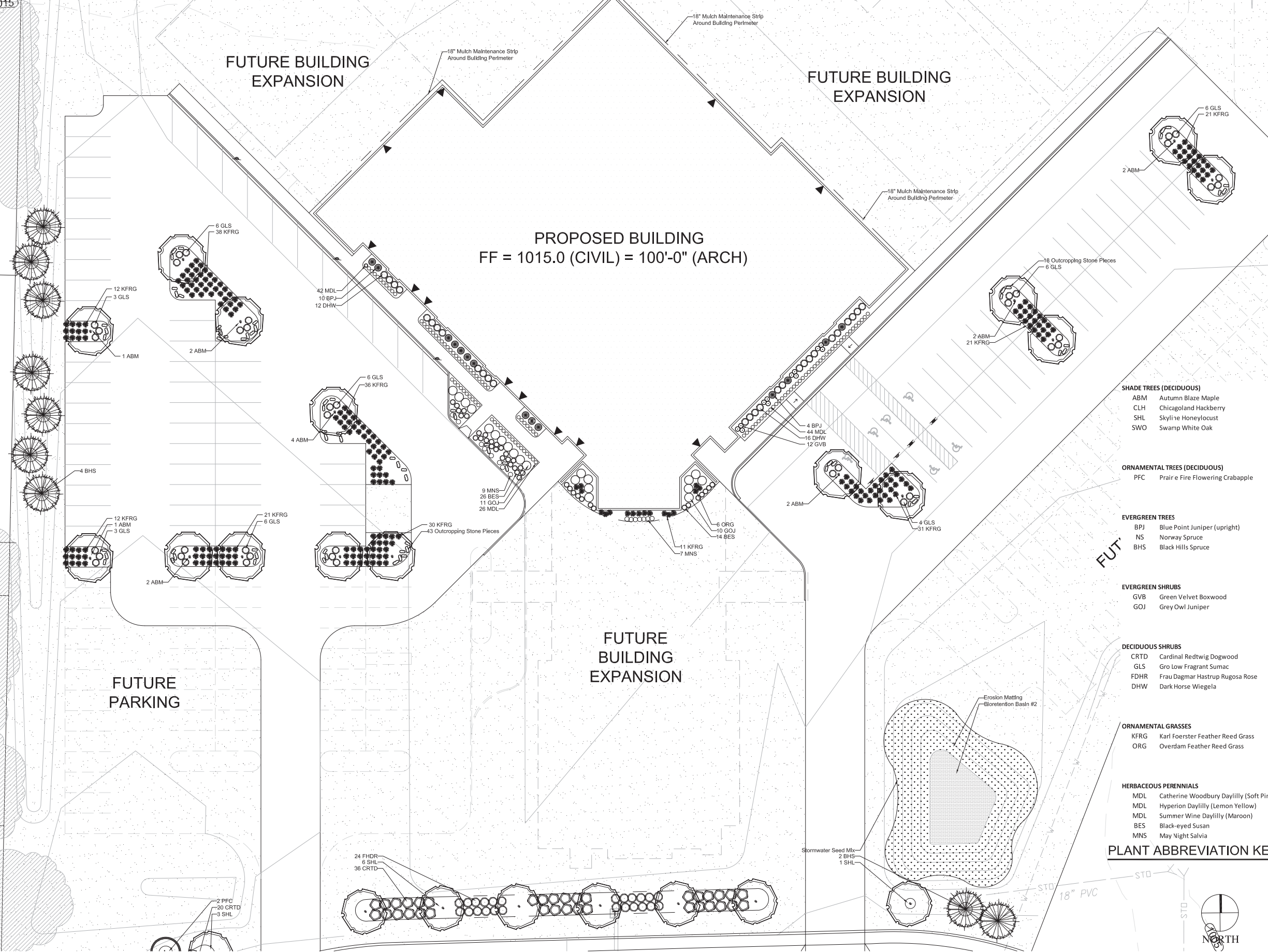
OVERALL LANDSCAPE PLAN
 Scale: 1"=40'0"



2014-12-16 Prelim Set

DIGGERS HOTLINE
TO OBTAIN LOCATIONS OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN
CALL DIGGERS HOTLINE 1015
BILL OF 1-800-942-9831
N.S.W. AREA 1-262-7894
REQUIRES MIN. 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

LOT 10
EAGLE CREST SUBDIVISION



- SHADE TREES (DECIDUOUS)**
- ABM Autumn Blaze Maple
 - CLH Chicagoland Hackberry
 - SHL Skyline Honeylocust
 - SWO Swamp White Oak

- ORNAMENTAL TREES (DECIDUOUS)**
- PFC Prairie Fire Flowering Crabapple

- EVERGREEN TREES**
- BPJ Blue Point Juniper (upright)
 - NS Norway Spruce
 - BHS Black Hills Spruce

- EVERGREEN SHRUBS**
- GVB Green Velvet Boxwood
 - GOJ Grey Owl Juniper

- DECIDUOUS SHRUBS**
- CRTD Cardinal Redtwig Dogwood
 - GLS Gro Low Fragrant Sumac
 - FDHR Frau Dagmar Hastrup Rugosa Rose
 - DHW Dark Horse Wiegela

- ORNAMENTAL GRASSES**
- KFRG Karl Foerster Feather Reed Grass
 - ORG Overdam Feather Reed Grass

- HERBACEOUS PERENNIALS**
- MDL Catherine Woodbury Daylily (Soft Pink)
 - MDL Hyperion Daylily (Lemon Yellow)
 - MDL Summer Wine Daylily (Maroon)
 - BES Black-eyed Susan
 - MNS May Night Salvia

PLANT ABBREVIATION KEY

INFORMATION ON THIS DRAWING TAKES PRECEDENCE OVER THE SPECIFICATIONS MANUAL IF THE DOCUMENTS HAVE CONFLICTING INFORMATION.

NO.	DATE	BY	DESCRIPTION

ENLARGED LANDSCAPE PLAN

SCALE: _____ SHEET: _____

PROJECT #:	1203
DRAWN BY:	BAR
CHECKED BY:	DCB
DATE:	12.15.14

L1.1

ENLARGED LANDSCAPE PLAN

Scale: 1"=20'0"

2014-12-16 Prelim Set



Landscape Calculations & Distribution:

Total Lot Area:	535,419 SF
Proposed Number of Parking Stalls:	97 Stalls
Proposed Developed Area:	28,865 SF
Total 600 SF Units of Developed Area:	48.11 Units
Total Required Landscape Points:	240.5 (5 points per each 600 SF of Developed Area)

Development Frontage Landscaping:

Lot Frontage on Transport Court:	431 LF
Required Overstory Trees:	14.4 Trees
Required Shrubs:	71.8 Shrubs

Interior Parking Lot Landscaping:

Total Asphalt / Concrete Area:	67,220 SF
Required Interior Landscaped Areas:	5,378 SF
Total Proposed Parking Spaces:	97 Spaces
Total Required Trees:	34 Trees

Total Required Trees: 48 Trees

LANDSCAPE POINT VALUES:

LANDSCAPE POINT VALUES:	QTY	POINTS (EA)	POINTS (TOTAL)
Canopy Tree:	2.5" caliper	35	1260
Canopy / Small Tree:	1.5" caliper	15	30
Evergreen Tree:	5-6' tall	3	15
Upright Evergreen Shrub:	3-4' tall	10	30
Deciduous Shrub:	#3 (12-24")	3	9
Evergreen Shrub:	#3 (12-24")	4	12
Oramental Grass/Perennials:	# 1 gallon	2	6
Total Points (trees):			1815

Decorative Wall or Fence:	4 per 10 LF
Earthen Berm:	5 Avg. Height 30"; per 10 LF
	2 Avg. Height 15"; per 10 LF

PLANT MATERIAL SHOWN ON PLAN:	QTY	POINTS (EA)	POINTS (TOTAL)
Canopy Tree:	36	35	1260
Canopy / Small Tree:	2	15	30
Evergreen Tree:	15	3	45
Total Points (trees):			1815

Deciduous Shrub:	148	3	444
Evergreen Shrub:	47	4	188
Total Points (shrubs):			632

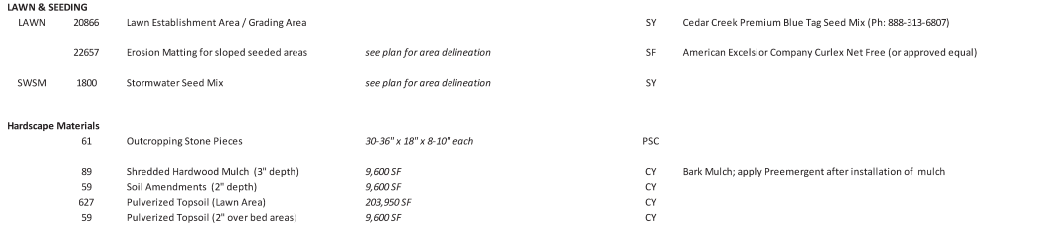
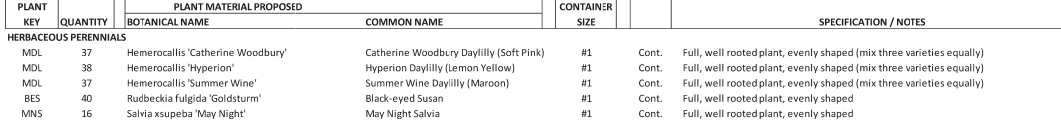
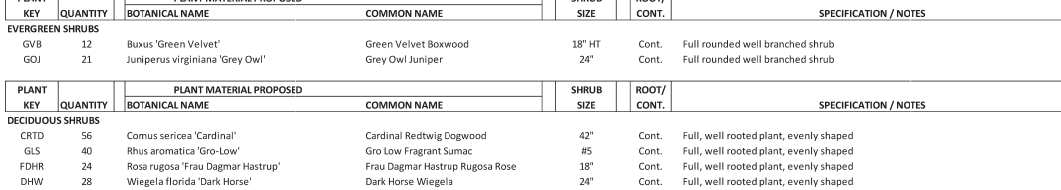
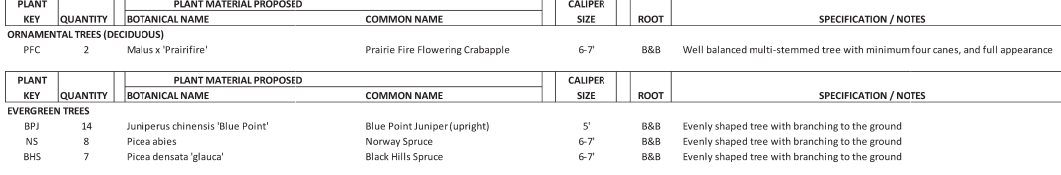
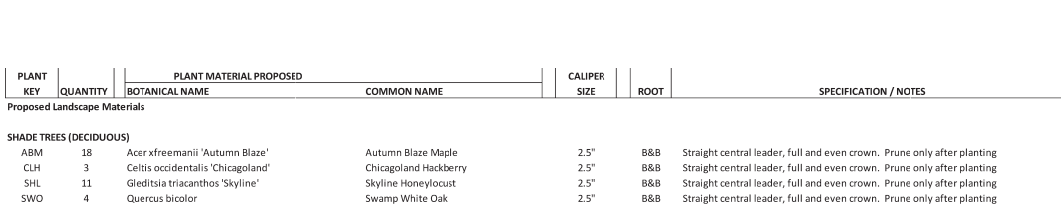
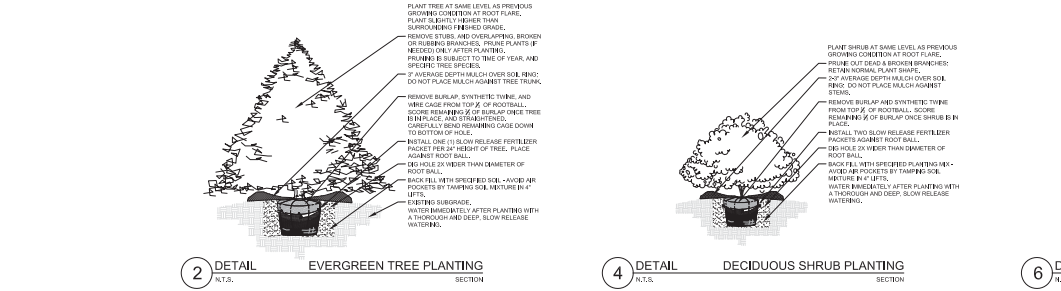
Oramental Grasses:	239	2	478
Perennials:	168	2	336
Total Points (perennials & grasses)			814

Total Points Shown on Landscape Plan:	TOTAL:	3261
--	---------------	-------------

TOTAL TREES SHOWN:

Canopy Tree:	36
Canopy / Small Tree:	2
Evergreen Tree:	15
Total:	53

CODE COMPLIANCE CALCULATIONS

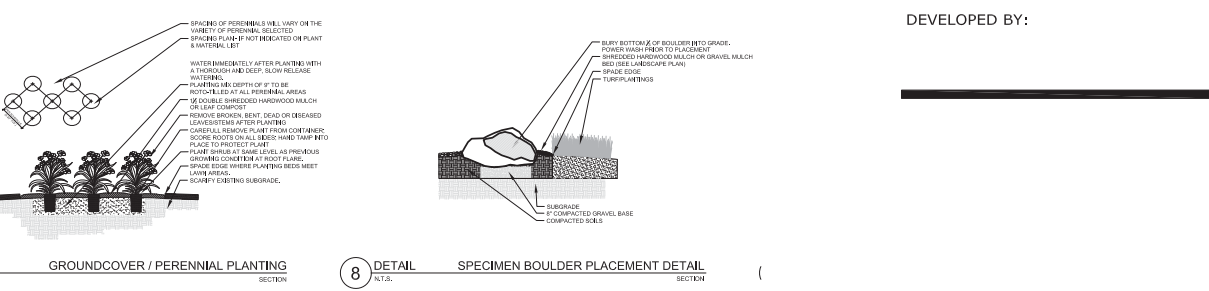
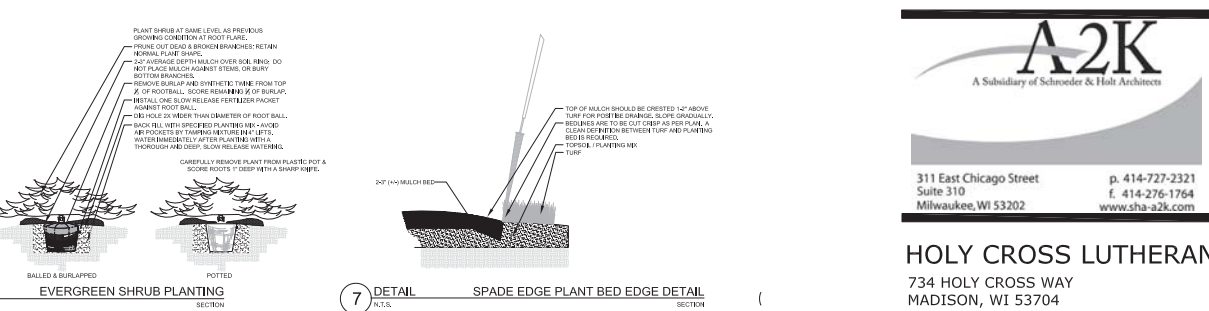


*Landscape counts & quantities are provided as a service to the Landscape Contractor. Landscape Contractor is responsible for verifying these counts and quantities in order to provide a complete landscape installation as outlined on this Landscape Master Plan. In the event that a discrepancy occurs between this schedule and the Landscape Master Plan, including the graphics and notations depicted therein, shall govern.

Seed Compositions:

Cedar Creek Premium Blue Turf (Ph: 888-313-6807):	10% Mid Atlantic Kentucky Bluegrass	10% Atlantic Kentucky Bluegrass	Seed at rate of 3# per 1000 SF
	20% Merit Kentucky Bluegrass	10% Dragon Kentucky Bluegrass	
	20% Boreal Red Fescue	10% Palmer III Fine Perennial Ryegrass	
	20% Pennant Fine Perennial Ryegrass		

PLANT & MATERIAL SCHEUDLE



PLANTING & HARDSCAPE DETAILS

- Contractor responsible for contacting Diggers Hotline (811 or 800-242-8511) to have site marked prior to excavation or planting.
- Contractor to verify all plant quantities shown on Plant & Material List and landscape planting symbols and report any discrepancies to Landscape Architect or General Contractor.
- All plantings shall comply with standards as described in American Standard of Nursery Stock - 260.1 ANSI (latest version). Landscape Architect reserves the right to inspect, and potentially reject any plants that are inferior, compromised, undersized, diseased, improperly transported, installed incorrectly or damaged. No sub-standard "B Grade" or "Park Grade" plant material shall be accepted. Plant material shall originate from nursery(ies) with a similar climate as the planting site.
- Any potential plant substitutions must be approved by Landscape Architect or Owner. All plants must be installed as per sizes indicated on Plant & Material Schedule, unless approved by Landscape Architect. Any changes to sizes shown on plan must be submitted in writing to the Landscape Architect prior to installation.

- Topsoil in Parking Lot Islands (if applicable): All parking lot islands to be backfilled with topsoil to a minimum depth of 18" to insure long-term plant health. Topsoil should be placed within 3" of finish grade by General Contractor / Excavation Contractor during rough grading operations/activity. The landscape contractor shall be responsible for the grading of all disturbed areas, planting bed areas, and lawn areas. Crown all parking lot islands a minimum of 6" to provide proper drainage, unless otherwise specified.

- Tree Planting: All trees slightly higher than finished grade at the root flare. Remove excess soil from the top of the root ball, if needed. Remove and discard non-biodegradable ball wrapping and support wire. Removed biodegradable burlap and wire cage (if present) from the top 1/3 of the rootball and carefully bend remaining wire down to the bottom of the hole. Once the tree has been placed into the hole and will no longer be moved, score the remaining 2/3 of the burlap and remove the twine. Provide three slow release fertilizer for each tree planted.

- Tree Planting: Backfill tree planting holes 80% existing soils removed from excavation and 20% plant starter mix. Avoid air pockets and do not tamp soil down. Discard any gravel, rocks, heavy clay, or concrete pieces. When hole is 1/2 full, trees shall be watered thoroughly, and water left to soak in before proceeding to fill the remainder of the hole. Water again to full soak in the new planting. Each tree shall receive a 3" deep, 4-5" diameter (see planting details or planting plan) shredded hardwood bark mulch ring around all trees planted in lawn areas. Do not build up any mulch onto the trunk of any tree. Trees that are installed incorrectly will be replaced at the time and expense of the Landscape Contractor.

- Shrub Planting: All shrubs to be planted in groupings as indicated on the Landscape Plan. Install with the planting of shrubs a 2/3 mix of plant starter with topsoil. Install topsoil into all plant beds as needed to achieve proper grade and displace undesirable soil (see planting detail). Remove all excessive gravel, clay and stones from plant beds prior to planting. When hole(s) are 1/2 full, shrubs shall be watered thoroughly, and water left to soak in before proceeding. Provide slow-release fertilizer packets at the rate of 1 per 24" height/diameter of shrub at planting.

- Mulching: All tree and shrub planting beds to receive a 3" deep layer of high quality shredded hardwood bark mulch (not pigment dyed or enviro-mulch). All perennial planting areas (groupings) shall receive a 2" layer of shredded hardwood bark mulch, and groundcover areas a 1-2" layer of the same mulch. Do not mulch annual flower beds (if applicable). Do not allow mulch to contact plant stems and tree trunks.

- Edging: All planting beds shall be edged with a 4" deep spade edge using a flat landscape spade or a mechanical edger. Bedlines are to be cut crisp, smooth as per plan. A clean definition between landscape beds and lawn is required. Pack mulch against lawn edge to hold in place.

- Plant bed preparation: All perennial, groundcover and annual areas (if applicable) are required to receive a blend of organic soil (Soil Amendments) amendments prior to installation. Rototill the following materials at the following ratio, into existing soil beds or installed topsoil beds to a depth of approximately 8"-10":
 - Per 100 SF of bed area:
 - 1/2 CY Peat Moss or Mushroom Compost
 - 1/2 CY blended/pulverized Topsoil
 - 2 pounds starter fertilizer
 - 1/2 CY composted manure

- Lawn Installation for all sodded turfgrass areas: Contractor to furnish and prepare blended topsoil (2" minimum) and sod bed, removing all debris and stones 1/2" and larger. Apply a 10-10-10 starter lawn fertilizer uniformly throughout areas prior to laying sod. Use only premium sod blend according to TPI (revised 1995) and ASPA Standards. Install sod uniformly with staggered joints, laid tightly and to end and side to side. Roll sod with a walk behind roller and water immediately upon installation to a 3" depth. Stake any sod installed on slopes steeper than 1:3, and in all swale applications. Contractor is responsible to provide a smooth, uniform, healthy turf, and is responsible for the first two mowings of the newly installed turf, and is also responsible for watering during this period.

- Installation preparation for all seeded areas: remove all of any existing unwanted vegetation prior to seeding. Prepare the topsoil (if adequate or provide as in Item #6 above) and seed bed by removing all surface stones 1" or larger. Apply a starter fertilizer and specified seed uniformly at the specified rate, and provide mulch covering suitable to germinate and establish turf. Provide seed and fertilizer specifications to Landscape Architect and Owner prior to installation. Erosion control measures are to be used in swales and on slopes in excess of 1:3 and where applicable (see CMI Engineering Drawings). Methods of installation may vary are the discretion of the Landscape Contractor on his/her responsibility to establish and guarantee a smooth, uniform, quality turf. A minimum of 2" of blended, prepared and non-compacted topsoil is required for all lawn areas. If straw mulch is used as a mulch covering, a tackifier may be necessary to avoid wind dispersal of mulch covering. Marsh hay containing red canary grass is NOT acceptable as a mulch covering.

- An acceptable quality seed installation is defined as having:
 No bare spots larger than one (1) square foot
 No more than 10% of the total area with bare areas larger than one (1) square foot
 A uniform coverage through all turf areas

- No-Mow seed areas: "No-Mow" fine fescue seed mix with annual ryegrass crop (available at Cedar Creek Seed Farm 888-313-6807; or Prairie Nursery 608-296-3679) or approved equivalent mix from a reputable seed mix provider. Apply at 220 lbs per acre or at rate recommended by supplier. Prepare seed bed and soil as specified in Item #13 above.

- Native Prairie Seed Mix / Stormwater Seed Mix: Native seed mixes as listed on the Plant and Material List or other seeding schedules outlined on the landscape plan set. Seed mixes available from Prairie Nursery 608-296-3679 or JF NW 608-848-1789 or approved equivalent mix from a reputable seed mix provider. Apply at rates specified herein, or per supplier recommendation. Prepare soil and seed bed as in Item #13 above.

- Warranty and Replacements: All plantings are to be watered thoroughly at the time of planting, through construction and upon completion of project as required. Trees, Evergreens, and Shrubs (deciduous and evergreen) shall be guaranteed (100% replacement) for a minimum of one (1) year from the date of project completion. Perennials, groundcovers, and ornamental grasses shall be guaranteed for a minimum of one (1) growing season. Perennials, groundcovers, and ornamental grasses planted after September 15th shall be guaranteed through May 31st of the following year. Only one replacement per plant will be required during the warranty period, except for losses or replacements due to failure to comply with specified requirements. Watering and general ongoing maintenance instructions are to be supplied by the Landscape Contractor to the Owner upon completion of the project.

- The Landscape Contractor is responsible for the watering and maintenance of all landscape areas for a period of 45 days after the substantial completion of the landscape installation. This shall include all trees, shrubs, evergreens, perennials, ornamental grasses, turf grass, no-mow grass, and native prairie seed mix / stormwater seed mix. Work also includes weeding, edging, mulching (only if required), fertilizing, trimming, sweeping up grass clippings, pruning and deadheading.

- Project Completion: Landscape Contractor is responsible to conduct a final review of the project, upon completion, with the Landscape Architect, Client or Owner / Client Representative, and the General Contractor to answer questions, provide written care instructions for new plantings and turf, and insure that all specifications have been met.

LANDSCAPE GENERAL NOTES



HOLY CROSS LUTHERAN
 734 HOLY CROSS WAY
 MADISON, WI 53704

DEVELOPED BY:



INFORMATION ON THIS DRAWING TAKES PRECEDENCE OVER THE SPECIFICATIONS MANUAL IF THE DOCUMENTS HAVE CONFLICTING INFORMATION.

NO.	DATE	BY	DESCRIPTION

LANDSCAPE NOTES, DETAILS & SCHEDULES

SCALE:	SHEET:
PROJECT #:	1203
DRAWN BY:	BAR
CHECK BY:	DCB
DATE:	12.15.14

L1.2

2014-12-16 Prelim Set