

General requirements

1. All construction shall be performed to comply with applicable national and state building codes, local amendments, regulations, having jurisdiction, and generally accepted industry standards. Where discrepancies exist between requirements of AHJ, notes on this drawings or the code, the most restrictive shall apply.
2. These drawings indicate the general scope of the project in terms of architectural design concept, major architectural elements, dimensions of the site and buildings. The drawings do not necessarily indicate all work required for full performance and completion of all requirements of the contract documents. Approach of design describe performance - based building method, engineering & detailing and assume suitable soil condition.
3. This set of drawings does not include building material list. The owner/contractor is to provide products & assembly selection and coordinate installation.
4. The term "Contractor" referred to as the General contractor, prime contractor for separate trade or contractor's authorized representative.
5. Contractor are responsible to familiarize himself with local building codes, requirements for license, insurance, existing underground utilities, other facilities and current soil condition in the construction site.
6. Contractors shall inspect the site, examine existing conditions, verify all dimensions of the proposed construction, protection of adjacent areas, trees, shrubs, etc. The nature and location of the work and all matters which may in any way affect the work or its performance.
7. The Architect will review all notes, submittals given by the owner and incorporate them into the construction documents. The responsibility of the owner and contractor to verify all items on the drawings (sections, layout of walls, windows, features, etc.). Any discrepancy shall be resolved prior proceeding with construction.
8. Contractor shall have full responsibility for the coordination with mechanical, electrical, plumbing drawings, other trades, various underground utilities on the site which shall remain intact, expedition and general supervision of all construction, accuracy, fit and stability of all parts of the work. All trades are to coordinate their work with the size and location of all equipment prior to installation.
9. The contractor shall be responsible to furnish all material required for the proper execution and completion of the work include any items which are not indicated on drawings but are implied and can be reasonable assumed.
10. All labor, materials and installations shall meet the requirements of all governing codes, ordinances, law regulations and safety codes and directives relating to the project. All work shall be performed in a good manner and to be complete and ready for use by the owner.
11. Mechanical, electrical, plumbing works, as practically in industry, to be done by design - build entity. Design - build contractor for specific area shall calculate and verify for all demand of required sources, size of selected equipment, devices, etc. for particular part of work.
12. Do not scale drawings. Written dimensions always take precedence over scaled dimensions. Verify all dimensions in the field, on the event of any discrepancies notify the architect and owner before proceeding with construction.
13. Drawing that represent existing plan conditions, if applicable, are shown diagrammatically. All dimensions shall be verified in the field and notified of any differences that will affect new work dimensions.
14. All transitions of new work to existing walls, floor, ceiling parts shall be carefully executed. Existing construction shall be repaired as needed and patched to match finishes of adjacent surfaces.
15. Before the start of any work the contractor shall notify utility companies (gas, water & sewer, electric, telephone etc.) for the location in the field of underground mains, cables and conduits.
16. Contractor shall locate and do not disturb utility lines or disconnect same unless proper precautions are taken to provide the same utilities on a temporary or permanent basis without loss of continuity, arrange for temporary water supply and electrical service to the project.
17. Owner is to conduct soil tests & dig pits to determine soil type and drainage properties of site. If any unforeseen circumstances occur which require work in addition to the scope as determined by the working drawings, additional time may be added to the contract.
18. Contractor shall remove and dispose of all tools, equipment, surplus materials and rubbish pertaining to his work and cooperate with owner in final cleaning of the site.
19. Contractor is responsible for scheduling and following up on all inspections.
20. Contractor shall be responsible to carry sufficient insurance for the duration of the project. All work or corrective work shall be warranted for one year from the date of occupancy.

Design criteria (psf, typical)

Floor - 40 # LL 10# dl typical all areas
Wall - 60 p.s.f. or actual load
Ceiling - 20 # LL 10# dl limited attic storage
Cathedral - 30 # LL 15# dl all slopes
Roof - 30 # LL 10# dl roof slope over 3/12
Balcony - 100 # LL 10# dl exterior
Deck - 100 # LL 30# dl exterior
Flat roof deck - 100 # LL 30# dl
Stairwell - 100 # LL 40# dl
Wind load - 20 p.s.f.
Corners - 30 p.s.f.
Parapets - 40 p.s.f.
Snow load - 30 p.s.f.
Soil bearing capacity - 3000 psf.
Bearing values shall be field verified by qualified testing agency
Concrete compressive strength - 3000 psi.
for flat work - 4000 psi.
Reinforcing steel: A.S.T.M. A615 - Grade 60
Structural steel: A992 - 50 ksi. for "W" Sections
Fy = 46 ksi. for tube sections. A 36 for all other sections
Structural Framing Lumber:
Grade #2 species SPF Canadian Base FB = 875
Grade #2 species SYP domestic Base FB = 875 treat.
Grade #1 species hem - fir Base Fb = 1050
Manufacturer: Truss joist McMillan, Microlam LVL
size: 1 3/4" x Fb = 2,600 p.s.i. E = 1.9

Energy conservation code

- * Project shall comply with sections of applicable code, identified as "mandatory" and with sections as "prescriptive" approach.
- * A permanent certificate shall be completed and posted on or in electrical distribution panel by the builder. The certificate shall list:
 - the predominant R-values of insulation installed in ceiling/ roof, walls, floor, foundation (basement walls, slab, crawlspace wall0 and ducts outside of conditioned spaces.
 - U-factor for fenestration
 - Types and efficiencies of heating, cooling & water heating equipment s.
 - Insulation & fenestration requirements:
 - * climate zone - 5
 - * fenestration U-factor - 0.30
 - * skylights U-factor - 0.55
 - * prescriptive R-value by components:
 - * ceiling - 49, cathedral ceiling - 38
 - * wood frame wall - 20 or 13+5
 - * mass wall (above grade) - 13/ 17
 - * basement wall - 15/ 19
 - * crawl space wall (not vented) - 15/ 19
 - * floor - 30, slab - 10, [2 ft.]
- * Where some or all of existing fenestration unit is replaced, new fenestration shall meet applicable requirements for U-Factor.
- * The components of the building thermal envelope shall be installed in accordance with the manufacturer's instruction, joints, penetrations and all other such openings in the building envelope that are sources of air leakage must be sealed. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. Vapor retarder required on the warm- winter side of all non-vented framed ceilings, walls, and floors.
- * Verify correct R-value and thickness of selected types of insulation for each location, vapor retarder & ventilation, adequate space for proper installation per manufacturer recommendations. Prevent damaging or compressing the insulation.
- * Access hatches and doors to unconditioned spaces shall be weatherstripped and insulated to a level equivalent to the insulation of surrounding surfaces.
- * The building shall be tested and verified as having an air leakage rate of not exceeding 3 air changes per hour. Blower door test shall be performed by 3 rd. party after creation of all fenestration of the building thermal envelope prior final inspection.
- * Roof surface of low slopped roofs (2:12 or less) shall have an initial solar reflectance greater than or equal to 0.65 and emissivity greater than or equal to 0.9. Roof surface of medium sloped roofs (greater than 2:12 and less than or equal to 5:12) shall have an initial solar reflectance greater than or equal to 0.15 and emissivity greater than or equal to 0.9.
- * A min. of 90% of the lamps in permanently installed lighting fixtures shall be or contain only high - efficacy lamps. Recessed lights shall be type IC rated and sealed to limit air leakage or installed inside and appropriate air-tight assembly with a 0.5" clearance from combustible materials. If non-IC rated, the fixture must be installed with a 3" clearance from insulation.
- * Duct construction:
 - All joints, seams, and connections must be securely fastened with welds, gaskets, mastics (adhesives), Mastic-plus-embedded-fabric, or tapes. Duct tape is not permitted.
 - Ducts shall be supported every 10 feet or in accordance with the manufacturer's instructions.
 - Air filter are required in the return air system.
 - The HVAC system must provide a means for balancing air and water system.
 - All supply and return ducts not completely inside of the thermal building envelope shall be insulated to a min. R- 6. Outside the building - min. R-8.
- * Mechanical system piping capable of carrying fluids above 105 f. or below 55 f. shall be insulated to a min. of R-3. High efficiency tank to be insulated. For non-circulating systems heat traps to be provided as required per code. Insulation to be provided on 8 ft. of inlet/outlet pipes, atleast 1 inch of R-4.0 insulation.
- * Outdoor air intake and exhaust shall have automatic or gravity dampers that close when system is not operating.

Contractor:

1. Verify existing condition of affected by construction structural elements, replace with new (same size and materials) or reinforce as per design professional recommendations.
2. Remove & demolish windows, doors, structural framing, cabinets, appliances, parts & devices of MEP systems, as indicated on plans.
3. Verify existing Mechanical system: furnace, AC unit, ductwork, Plumbing fixtures, supply & waste lines.
4. Verify existing Electrical system: electric panel, conduits & wiring, outlets, switches & lights, required detectors & controls.

Typical indications

- concrete foundation wall
- masonry wall
- brick veneer wall
- frame exterior wall
- object to be removed
- tripple studs post
- beam/ header
- steel/ wood column
- load bearing partition

Floor finish materials: [per owner v.i.f.]
* hardwood - in living & common areas
* ceramic tiles - in bathrooms, laundry
* hardwood or carpet - in bedrooms, closets, basement area

Advanced Notice of the Developer - Architect agreement

- * The documents and work as set out in the attached Proposal are the intellectual property of the Architect and are to be used for the particular project listed in the Proposal only. The project is to be built by a lawfully licensed Contractor, who is knowledgeable in the building trades and has experience in this type of construction. The term "Contractor" refers to General Contractor, Prime Contractor for separate trades or Contractors, and/or authorized representative.
- * The architect is not supervising the construction.
- The architect shall not have any control over, in charge of or responsibility for the construction means, methods, techniques, procedures or the safety precautions in connection with the construction process.
- * Pursuant to the attached Proposal, the following areas are solely the Contractor's responsibility:
 - Each Contractor shall observe all local, state and federal rules and regulations regarding safety and shall provide all necessary equipment in order to safeguard or protect the health of all the workers on the construction site. The Contractor shall explain, instruct, and direct all workers under their control to follow all the necessary safety rules and regulations.
- * The Developer and/or Contractor shall report to the Architect any structural, egress and fire protection system changes provided during construction. The Architect is not responsible for the Developer's directives, changes or substitutions, made without prior approval of the Architect.
- * The Developer and/or Contractor shall promptly report to the Architect any errors, omissions, inconsistencies or nonconformity that are discovered during the construction process and/or as a result of a request for information. Failure to promptly notify of errors or omissions may result in liability for the Developer and/or Contractor for remediation costs.
- * The Developer and/or Contractor shall submit to the Developer and copy to the Architect a Certificate of Commercial Liability Insurance, which includes the Developer and Architect as additional insured for claims caused by the Contractor's negligent acts and/or omissions during the Contractor's completion of the operation of this project.
- * The Developer and/or Contractor shall indemnify and hold harmless the Architect from any and all claims against arising out of the Contractor's failure of performing any of the work.
- * The Developer and/or Contractor, to the fullest extent permitted by law, agrees to protect and defend, indemnify and hold harmless the Architect of this project. It is intended to apply to any liability or causes of actions and/or other expenses, arising out of or the direct result of the negligence of the Developer and/or Contractor or their failure to perform any of their work.
- * It is the responsibility of the Owner/ Developer to instruct the General Contractor and/or separate Prime Contractors with the information, as stated above.

Elevation notes

1. Exterior finish materials and color, style of railings, posts shall be recommended by architect and selected by owner.
2. All exterior penetration, wall control joints, pipes, conduits and ductwork that penetrate walls, floors or roof must be installed (sealed, taped, caulked, etc.) that preserve the fire resistive integrity, water tightness and air leakage of the building envelope.
3. Provide and install flashing at:
 - head of window frame openings, head and sill of masonry veneer openings, roof to wall intersections, chimney to roof intersections and concrete slab intersection with wood framing. All dissimilar metals shall be effectively isolated.
4. Wrap eave returns with rain gutter and flashing.
5. All downspout location to be field verified with owner prior to installation.
6. Tempered safety glazing shall be provided in windows/ doors:
 - glass greater than 9 sq. ft. in area.
 - bottom of glass within 18" of the finish floor.
 - 12" of any doors.
 - hazardous locations: stair, landing, door, sidelights.
 - tub/ shower enclosure, sky lights.
7. Windows and doors designation are based on nominal unit sizes in feet and inches. Labeled on drawings as width x height.
8. Windows and doors shall be certified to indicate compliance with the local ECC code requirements. General contractor shall coordinate with owner window/ door type & style. Exact window/ door opening sizes shall be coordinated and verified in field by Contractor.
9. Upon being awarded window / door contract, the manufacturer is to provide contractor with all rough openings & associated dimensions to adjacent walls. Verify locations of tempered safety glazing and locations of required egress.
- * See electrical plans for exterior light locations.
- * Provide address block on front of building and alley side of garage.
- * see details for additional information *

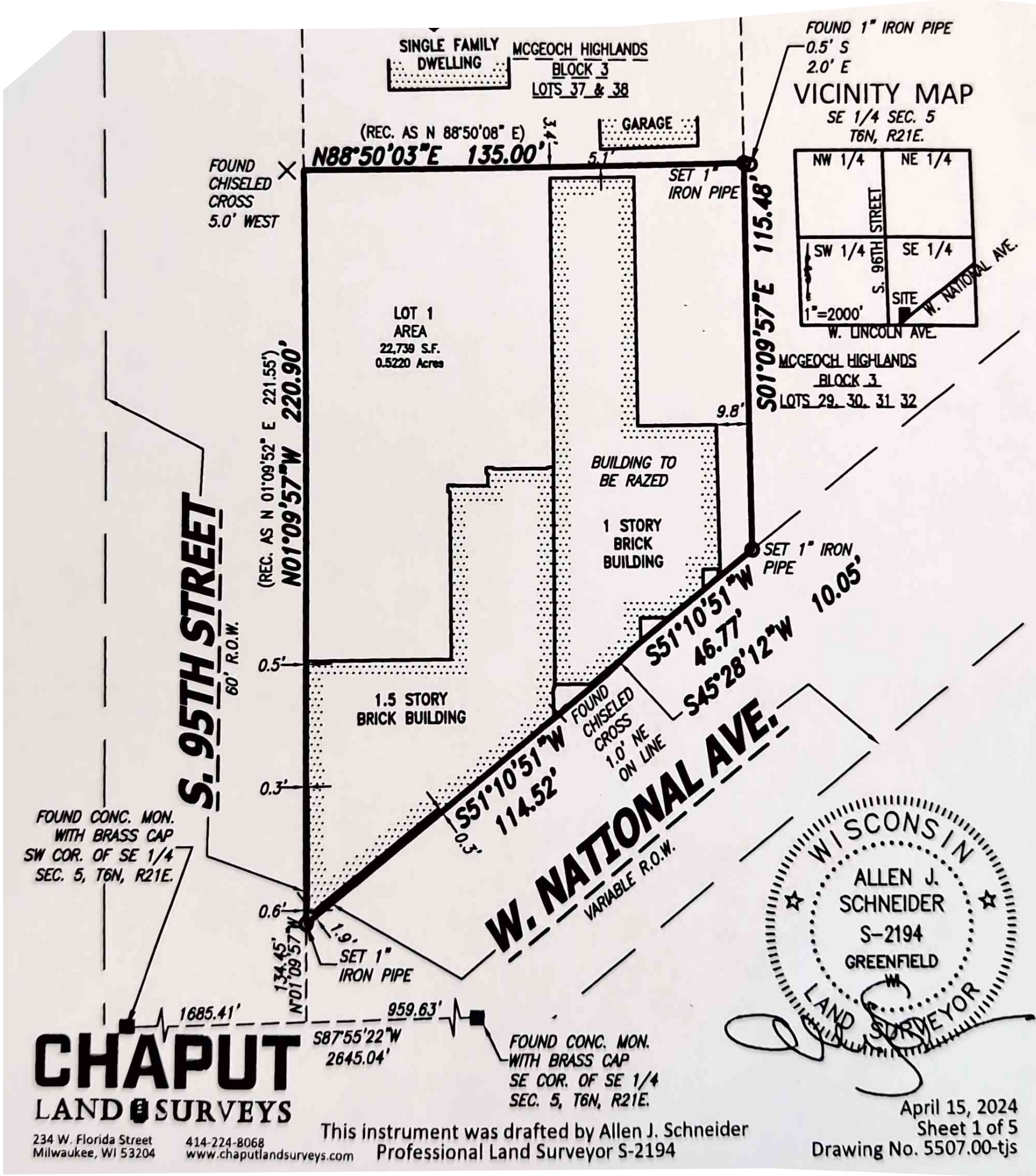
Framing notes

- All rough carpentry framing and materials shall comply to recognized industry standards and regulations.
1. All framing shall be 16" o.c. unless noted otherwise. All un-dimensioned partition are 3 1/2" rough. All wall heights are assumed single 2x bottom plate and double 2x top plate. [u.n.o.]
All interior non - load bearing walls to be 2x4 studs @ 16" o.c. [u.n.o.]
 2. Walls are dimensioned to face of stud. All plumbing walls shall be 2" x 6" wood studs. All angled partitions to be 45 degrees [u.n.o.]
Min. bearing of a wood joist on wood to be 1 1/2" min. Min. bearing of wood joist or girder on concrete or masonry to be 3" min.
 3. Install proprietary connections in conformance with manufactures installation requirements. No stud to be notched - drilled only. Utilize structural stud shoe.
 4. Provide anchorage of walls and columns to roof and foundation to resist uplift and sliding forces. Refer to the fastening schedule of pertinent code. Nailing not shown on drawings.
Use fasteners of appropriate type and length. Space fasteners to comply with applicable codes and recommended nailing schedule. Pre-drill members when necessary to avoid splitting wood.
 5. All wood girders or beams pocketed into a masonry wall shall have bearing plate & 1/2" clearance (air gap) at sides top and end. 6 mil v.b. wrap (to prevent decay).
 6. Roof/floor pre-engineered trusses design and a truss layout plan to be provided by an Illinois Licensed Design Professional. Truss drawings and layout shall be on the job site at the time of inspections. Brace joists @ max 8' o.c. or per truss manu. spec's.
Use metal connectors for connect joists to headers ("Simpson strong tie" or equal.)
 7. Headers over windows/openings in bearing partitions to be 2-2x12s w/ 1/2" plywood continuous filch between. [u.n.o.] Nail as required.
Window/ door manufacturer shall provide the contractor with all rough openings & associated dimensions to adjacent walls.
Non-labeled on plan windows/ doors assume - existing.
 8. Provide double joists under parallel partitions, kitchen granite counters and both tubs above or blocking between floor trusses attached to upper cord and vertical web posts or diagonal braces in the area infill between. [u.n.o.] Nail as required.
Window/ door manufacturer shall provide the contractor with all rough openings & associated dimensions to adjacent walls.
Non-labeled on plan windows/ doors assume - existing.
 9. All exterior framing and framing in contact with concrete or masonry shall be pressure treated to exterior exposure. Provide hot dipped galvanized steel fasteners.
 10. Provide continuous treated wood sill for frame construction secured to the top of foundation wall with washers and nuts on the anchor bolts.
Install sill sealer with approved cell foam gasket or other material between foundation and wood plate. Shimmed plates to be grouted. Prior to sill plate installation, contractor must verify concrete work condition and required dimensions.
 11. Provide a continuous 2x6 treated wood nailed on top of all steel beams except those used for supporting masonry.
All framing corners to be triple studs. Provide horizontal blocking in wall over 10'-0" ht., ladder type vertical connections for interior to exterior walls. Provide 3-2x's between mulled windows with 3 or more units & min. 3-2x's stud post under all bearing points unless otherwise noted.
 12. All concentrated loads to be transferred to foundation w/ beams posts and/ or solid blocking. All Microlam's to be glued & bolted together as per manufacturers requirement.
 13. Verify required headroom before locating structural members above stair flight.
 14. Provide blocking for kitchen & bath cabinets and applicable grab bars installation. Verify location.
 15. Enclosed accessible space under stairs to be protected on the enclosed side with 5/8" type "X" drywall. Space vent pipes per code. [1/ 150]
 16. All beams and columns supporting fire rated wall/ceiling assembly shall be enclosed accordingly.
 17. Fire stopping is to be provided at the following locations:
 - concealed spaces of studs walls and partitions, including furred spaces, at the ceiling and floor level.
 - at ten foot [10'] intervals both vertical and horizontal.
 - all interconnections between concealed vertical and horizontal spaces, such as occurs at soffits, drop ceilings voce ceiling etc.
 - concealed spaces between stair stringers at the top and bottom of the run.
 - opening around vents, pipes, ducts, chimney and fireplaces at ceiling and floor level, without non-combustibles. Use 4 p.s.f. mineral wool. Provide fire caulk as per code. Energy seal foam around all windows, doors, outlets, conduit and penetrations.
 - 2" min. clearance between combustibles & chimney.
 18. Provide and install flashing at:
 - head of window frame openings, head and sill of masonry veneer openings.
 - roof valley's, roof to wall intersections, chimney to roof intersections and concrete slab intersection with wood framing.
 19. Provide draftstop material behind tubs and showers on outside walls, insulate walls, floor & ceiling surrounding bathroom for sound, undercut door or transfer grill for fresh air intake fan.
 20. All materials at stairwells for interior wall & ceiling finish shall be class 1 f.s.r. (index 0-25). Bath floor and walls with shower heads shall be with non-absorbent surface 6 ft. min. a.i.f.
Exit doors to be 3 ft. min. wide & 1-3/4" min. solid core w/ closers & operable from inside without a key.
Attic access - 22' x 30". Crawl access: thru floor - 18' x 24", thru wall 16' x 24" min.
 21. Kitchen and bath design provided as a concept. Owner's selection of kitchen/ bath cabinets, fixtures & appliances, wall & floor finish materials, windows and doors to be coordinated by General contractor with shop drawings approved by Architect.
 - * see details for additional information *

AREA OF WORK



LOCATION PLAN AND AREA OF WORK



PLAT OF SURVEY

9422 W NATIONAL AVE,
WEST ALLIS, WI 53227

A-SQUARED ENGINEERING
SERVICES PC

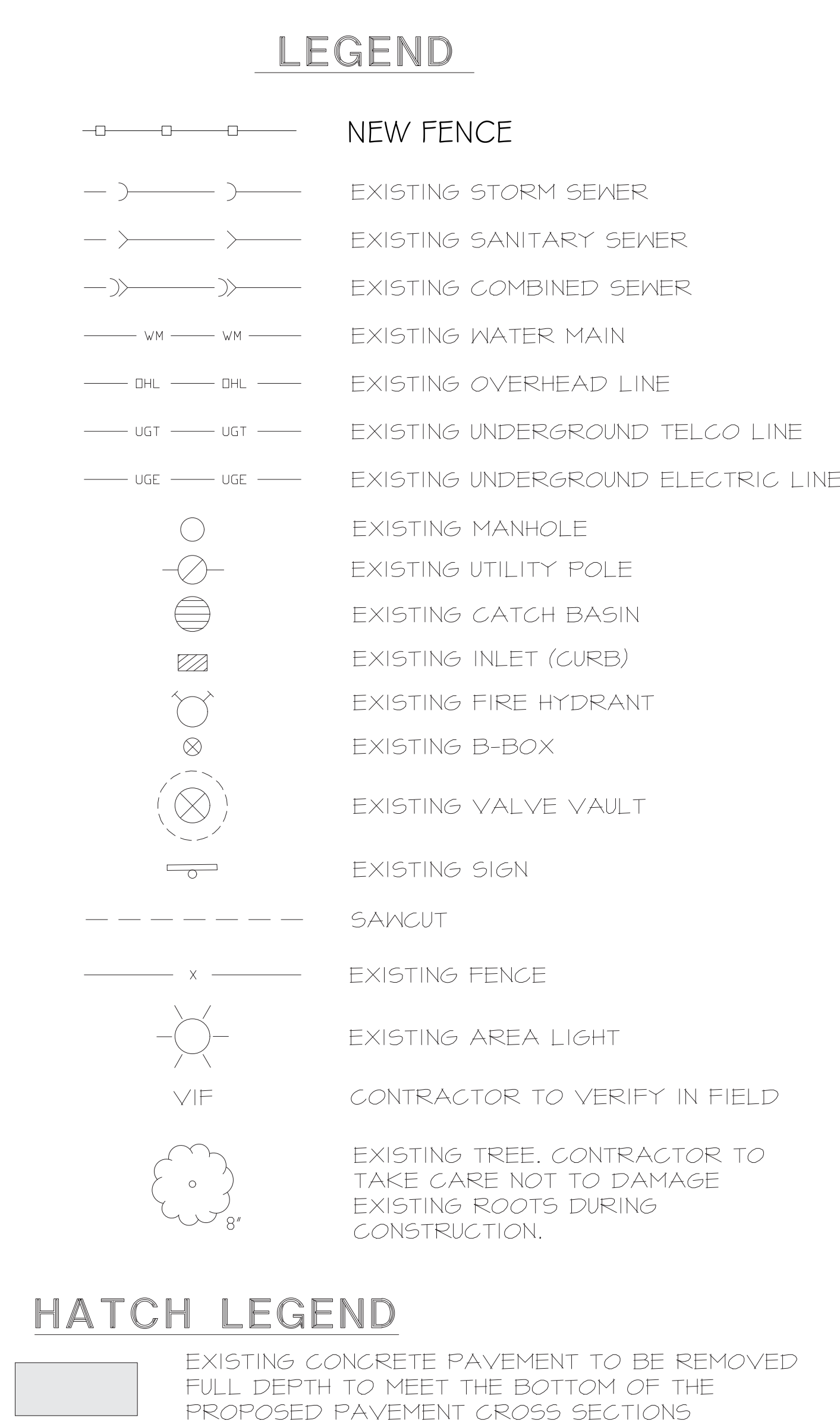
4032 N PARK ST WESTMONT, IL 60559
PH: 630-733-1923
EMAIL: INFO@A2ESC.COM

REV # 1 DT: 09/17/2024



SHEET #

A-1

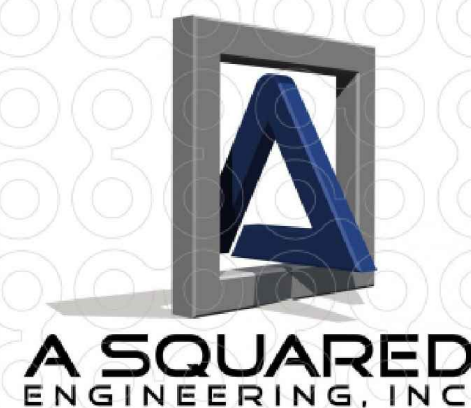


- A. CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
- B. TO REMAIN SHALL OBTAIN ALL NECESSARY DEMOLITION PERMITS AND COORDINATE ALL DEMOLITION WITH THE MUNICIPALITY AND OWNERS REPRESENTATIVE TO ENSURE PROTECTION AND MAINTENANCE OF SANITARY AND WATER UTILITIES AS NECESSARY AND TO PROVIDE STORM WATER DRAINAGE UNTIL NEW UTILITIES ARE CONSTRUCTED, TESTED, AND PLACED IN OPERATION.
- C. CONTRACTOR SHALL DEVELOP AND IMPLEMENT A DAILY PROGRAM OF DUST CONTROL PROCEDURES PRIOR TO DEMOLITION OF ANY STRUCTURES. MODIFICATION OF DUST CONTROL PROCEDURES SHALL BE PERFORMED BY THE CONTRACTOR TO THE SATISFACTION OF THE MUNICIPALITY AND COMPLY WITH THE NPDES II REQUIREMENTS OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND THE INDIVIDUAL STORM WATER POLLUTION PREVENTION PLAN FOR THIS PROJECT.
- D. ALL EXISTING TREES, BRUSH AND MISCELLANEOUS VEGETATION TO REMAIN OR DIE BACK LIGHTS SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF BY THE CONTRACTOR.
- E. VOIDS LEFT BY ANY ITEM REMOVED UNDER ANY PROPOSED BUILDING, PAVEMENT, OR WALK OR WITHIN 24" THEREOF SHALL BE BACKFILLED WITH ENGINEERED FILL.
- F. ALL EXISTING CONCRETE OR ASPHALT CONCRETE OR PAVEMENT OR WALKS, CURB AND GUTTER AND MISCELLANEOUS STRUCTURES (INCLUDING, BUT NOT LIMITED TO FENCES, POLES, YARD LIGHTS, ELECTRICAL PANELS, AND MISCELLANEOUS DEBRIS) INDICATED TO BE DEMOLISHED SHALL BE REMOVED OR DEMOLISHED AND REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.
- G. CONTACT GAS COMPANY PRIOR TO DEMOLITION. LOCATION OF EXISTING GAS SERVICES ARE UNKNOWN.
- H. ALL EXISTING TREES SHALL REMAIN UNLESS OTHERWISE NOTED.
- I. ALL EXISTING UTILITIES SHALL REMAIN UNLESS OTHERWISE NOTED.
- J. CONTRACTOR SHALL LOCATE ALL UTILITIES LOCATIONS TO LOCATE UTILITIES PRIOR TO CONSTRUCTION AND SHALL CONTACT THE SITE ENGINEER IF A CONFLICT EXISTS.
- K. CONTRACTOR SHALL PROVIDE REMOVAL AND REPLACEMENT AND SHORING AS NECESSARY TO MEET OSHA AND LOCAL CODES.
- L. ALL FOUNDATIONS FOR ALL FENCES, SIGNS, ETC. NOTED FOR REMOVAL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFFSITE.
- M. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS PER THE BOUNDARY & TOPOGRAPHIC SURVEY, LAST DATED 11-24-18, PREPARED BY INT GROUP LAND SURVEYING. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS AND CONDITIONS (INCLUDING BUT NOT LIMITED TO VERIFICATION OF CONTROL AND ALL UTILITIES WHETHER DEPICTED OR NOT) PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- N. SEE SHEET SUR-1 (BOUNDARY & TOPOGRAPHIC SURVEY) FOR LOCATED EXISTING UTILITY DATA.
- O. CLEAR SITE AS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS.
- P. ALL AREAS MARKED "EXISTING OR EXISTING TO REMAIN" TO BE PROTECTED FROM DAMAGE FOR THE DURATION OF THE CONSTRUCTION.

EXPIRATION DATE: 11-30-2023
LICENSE NUMBER: 08100908

PROPOSED NEW PARKING LOT

BUILDER NAME	
BUILDER CONTACT	
BUILDER ADDRESS	
PROJECT ADDRESS	9422 W National Ave West Allis, WI 53227
CLIENT NAME	Owner
PIN#	



A2 ENGINEERING
SERVICES CORPORATION
HIMANSHU GOYAL
PHONE# 630-733-1923
4032 N PARK STREET
WESTMONT. IL 60559

REVISION LOG

REV #	DATE	DESCRIPTION

STATUS	ISSUE TO BID SET	

DPS PERMIT NUMBER:

ER4A Project number:	-
IRB# and IRB:	SAA

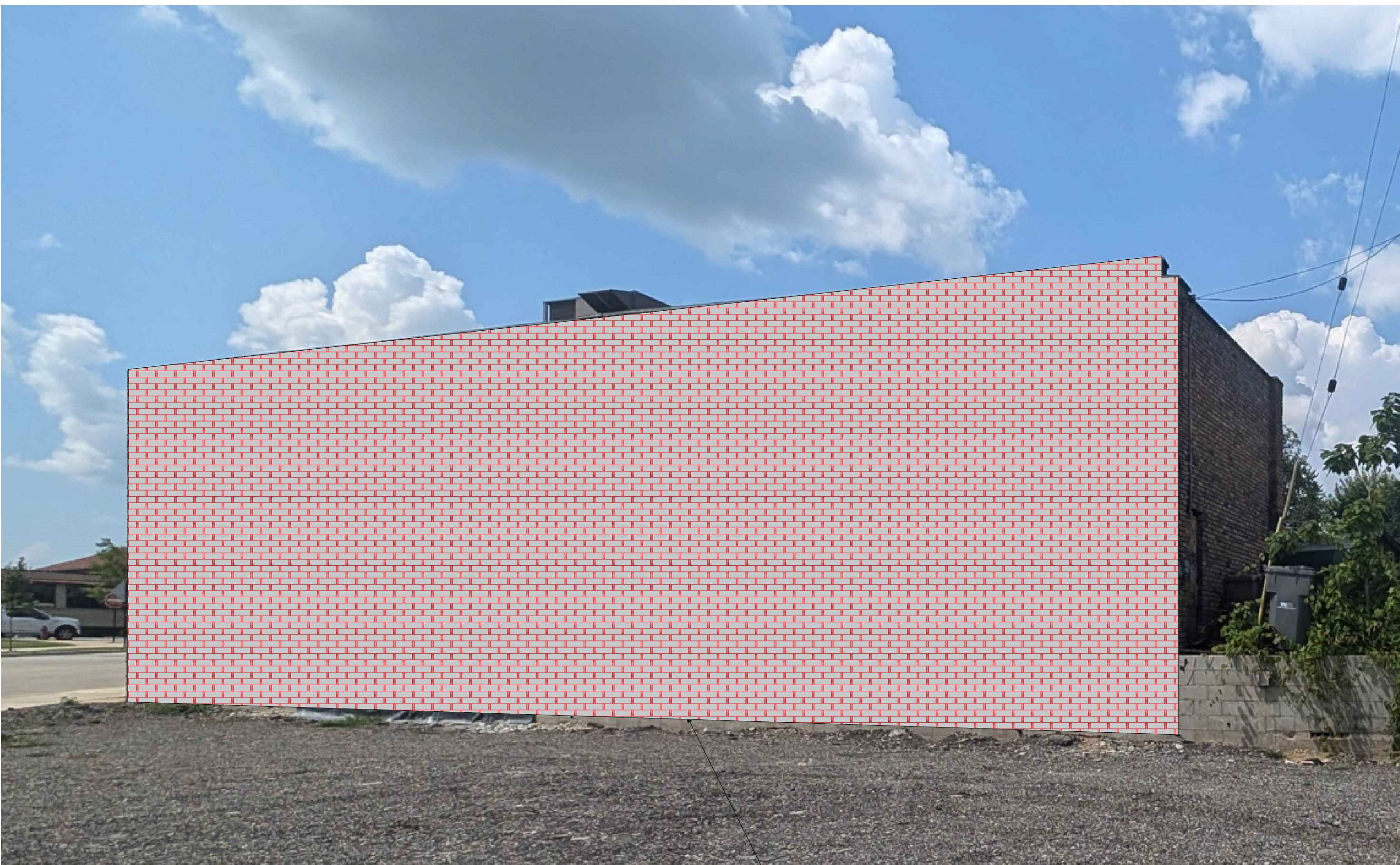
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SITE PLAN AND DETAILS

SHEET NO. **A 10**

A-1a

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



BRICK ON EXISTING BUILDING TO BE
REMOVED AND REPLACED WITH
NEW BRICK VENEER FENCE
(SEE DETAIL: 7 AT A2)

GENERAL NOTES

- [illegible]

SYMBOLS LEGEND

ROOM IDENTIFICATION TAG ROOM NO. ROOM NAME ROOM NUMBER		WALL TYPE TAG WALL FIRE RATING TAG
DOOR IDENTIFICATION TAG DOOR NO. DOOR LOCATION DOOR NUMBER	REVISION CLOUD	MARKERBOARD
ELEVATION TAG ELEVATION NO. DRAWING NUMBER ELEVATION NUMBER	HANDICAP ACCESSIBLE	TACKBOARD
SECTION TAG SECTION NO. TAG NOTE SECTION NUMBER	AREA OF REFUGE	DISPLAY MONITOR
DETAIL TAG DETAIL NO. TAG NOTE DETAIL NUMBER	DEMOLITION KEYNOTE	AUTOMATIC EXTERNAL DEPRESSURIZER
NOTES NOTES	FLOOR PLANE KEYNOTE	FIRE EXTINGUISHER
NOTES NOTES	ELEVATION KEYNOTE	RECESSED FIRE EXTINGUISHER CABINET
NOTES NOTES	BUILDING	WIRE FREE EXTINGUISHER
NOTES NOTES	BELONGED LIGHT TAG	RECESSED FIRE EXTINGUISHER CABINET
NOTES NOTES	CYLING HEIGHT AND FINISH TAG	WIRE FREE EXTINGUISHER
NOTES NOTES	FURNITURE TAG	FLAME RESISTANT COMBINATION UNIT
NOTES NOTES	DATUM TAG	PRODUCTION SCREEN
NOTES NOTES	ELEVATION HEIGHT	PRODUCTION UNIT - SEE ELEC

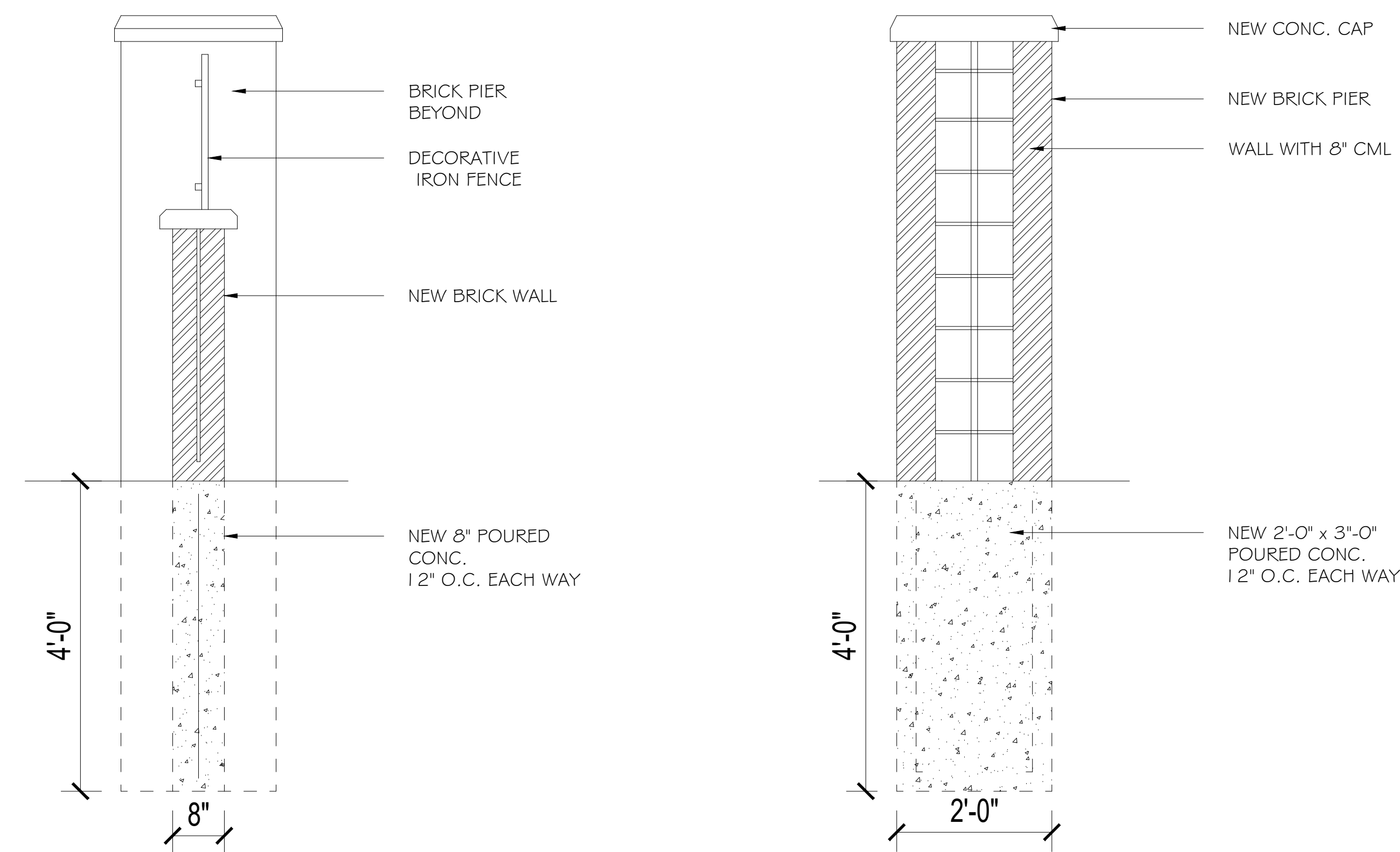
ABBREVIATIONS

ACT	ACCUSTICAL CEILING TILE	GA	GAGE GAUGE	QT	QUARRY TILE
AF	AFTER FINISHED FLOOR	GV	GAUVANIZED	QD	REFLECTED CEILING PLANK
AL	ALUMINUM	GC	GENERAL CONTRACTOR	REGD	REGISTRATION
APRX	APPROXIMATE	MD	METAL DECK	RETD	RETRACTED KEYBOARD
AV	AUDIOVISUAL	HM	HOLLOW METAL	SCB	SCHEDULE
BI	BOTTOM OF BOARD	INT	INTERIOR	SPRM	SPRAY-APPLIED FIRE-RESISTIVE MATERIAL
CJ	CONTROL JOINT	INFO	INFORMATION	SM	SPRINKLER
CL	CLEARANCE FOR MECHANICAL UNIT	MAX	MAXIMUM	SPC	SPECIALTIES
CM	CERAMIC TILE	ME	METAL MECHANICAL	STR	STRUCTURAL
CS	CERAMIC TILE	MEP	MECHANICAL, ELECTRICAL, PLUMBING	T	TOP OF
DC	DOWNPOUT	MFR	MANUFACTURER	TY	TYPICAL
DS	DISCREPANCY (DRAWING)	MIN	MINIMUM	UN	UNLESS NOTED OTHERWISE
EJ	EXPANSION JOINT	NC	NOT IN CONTRAST	UNT	UNIT
EG	EGGPOLE GLAZED	OC	ON CENTER	VCM	VINYL COMPOSITION TILE
ED	EXPOSED TO WEATHER	OD	OUTSIDE DIAMETER	VCT	VINYL TILE IN FELD
EWD	ELECTRIC WATER COOLER	OPP	OPPOSITE	WP	WORK POINT
F	FLOOR	PL	PLASTER	W	WORK
F1	FURNISHED BY OTHER	PLM	PLASTER MASONRY	WV	WIND VANE
FR	FIRE RETARDANT TREATED WOOD	PS	PROTECTION SURFACE	WV	WIND VANE
FR	FIRE PROTECTION	PSI	POUNDS PER SQUARE INCH		

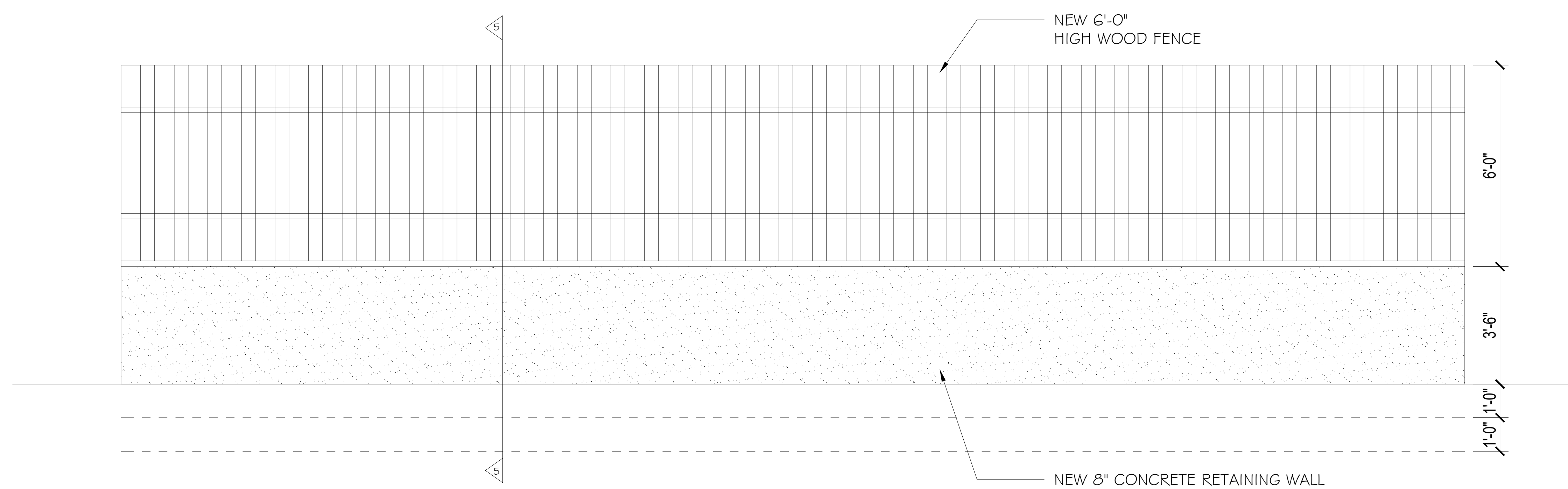
NEW SITE PLAN
SCALE: 1/8" = 1'-0"



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.



3 PIER SECTION
SCALE: 3/4" = 1'-0"



ELEVATION VIEW:

- Overall height: 6'-0"
- Components from top down: 2x4 NAILER, 4x4 TREATED WOOD POST, 1x13 TREATED CEDAR BOARDS.
- New Column Base assembly includes:
 - 3/4" CHAMFER (TYP.)
 - 1" GRADE EL. ± (SEE CIVIL DWGS)
 - CONTRACTOR TO PROVIDE ARCHITECTURAL CONCRETE WITH SMOOTH-RUBBED FINISH
 - 84 # 12" O.C. EACH WAY ± (CENTERED)
 - 4" DIA PERFORATED PIPE 25'-0" O.G.
 - PROVIDE GRATE OVER 4" PVC PIPE
 - PROPOSED ASPHALT PATH OR GREEN SPACE FINISHED GRADE (SEE GRADING PLAN FOR ELEVATIONS)
 - PROPOSED CONCRETE SIDEWALK (SEE GRADING PLAN FOR ELEVATIONS)
 - GRANULAR INFILL (CA-7)
 - 8" CONCRETE RETAINING WALL
 - KEYWAY
 - 4 - #4 CONT. TOP 4 BAR
 - T FOUNDATION EL. ± VARIES
 - #4 BARS @ 12" O.C. (T4B)
 - COMPACTED 6" SCREEN AND WASHED GRAVEL OR CRUSHED STONE DRAINED & CONFORM TO ASTM C926
 - ALTERNATE HOOK
 - 1'-0" dimension between alternate hook and keyway
 - 5'-6" overall width at base
 - 1'-0" dimension from centerline to edge of gravel

PLAN VIEW:

- Overall width: 5'-6"
- Dimensions from centerline: 1'-0" to edge of gravel, 1'-0" to edge of concrete wall.
- Gravel area extends 1'-0" from centerline on both sides.

Technical drawing of a new column base, showing side and top views with dimensions and material specifications.

Side View Dimensions and Labels:

- Overall height: 6'-0"
- Material specifications: 2x4 NAILER, 4x4 TREATED WOOD POST, 1x13 TREATED CEDAR BOARDS.
- Labels: NEW COLUMN BASE, 3/4" CHAIR (TYP.), 1/8" GRADE.
- Base width: 6"
- Post diameter: 3"
- Post hole spacing: #3 @ 12" O.C. EACH WAY (CENTERED)

Top View Dimensions:

- Overall width: 1'-0"
- Overall length: 2'-0"
- Post hole spacing: 3" (between holes), 1'-6" (between hole groups), 3" (from edge to hole group).

EXISTING BLOCK WALL

EXTERIOR FACE OF BUILDING SHEATHING - INSTALL PER MANUFACTURER SPECS.

INFILTRATION BARRIER - INSTALL PER MANUFACTURER SPECS.

NEW BRICK VENEER

WALL SUPPORT PANEL

MORTAR GROUT

PRE-FINISHED METAL FLASHING W/D RIP EDGE

Diagram of a standard 48x96 inch pallet. The diagram shows a top-down view of a pallet with 11 vertical stringers and 4 horizontal runners. A vertical dimension line on the left indicates a length of 8 ft. A horizontal dimension line on the right indicates a width of 5.5 ft.

NOTE: PRESSURE TREATED EXTERIOR SERVICE RATED PICKETS TO BE USED.

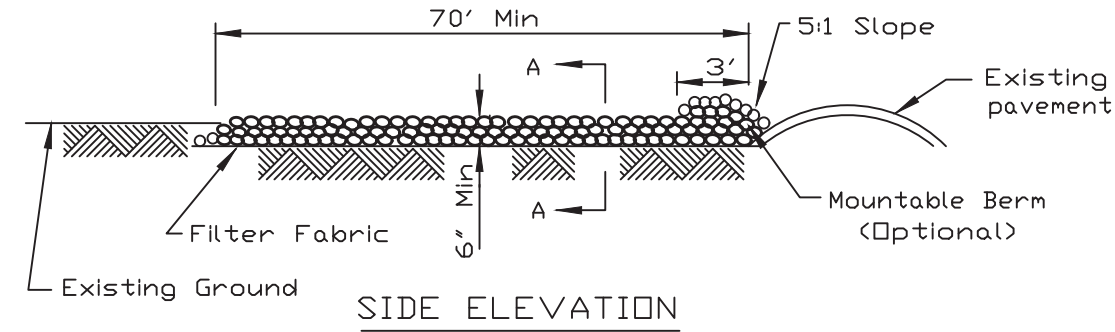
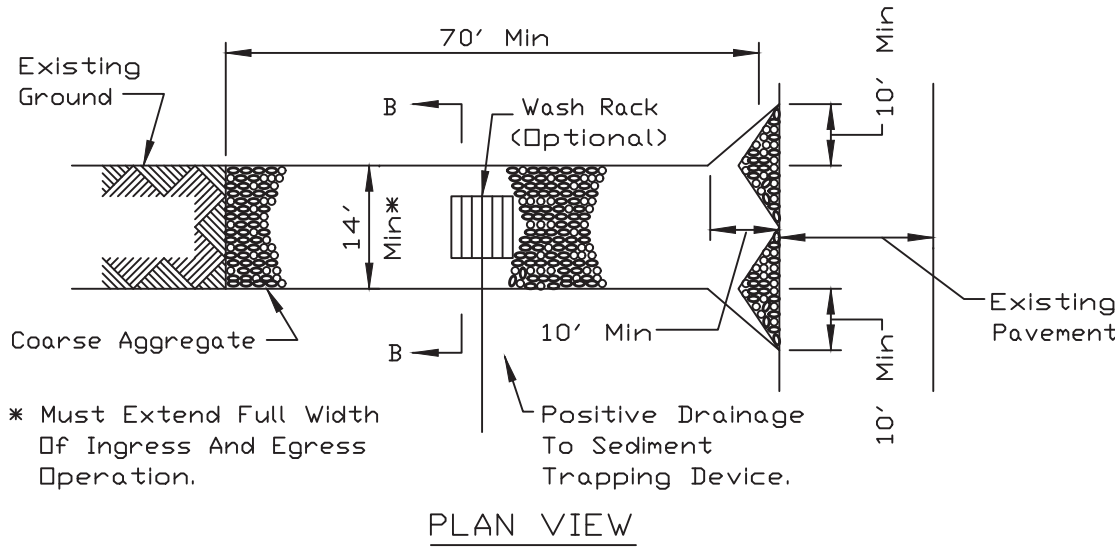
A2 ENGINEERING
SERVICES CORPORATION
HIMANSHU GOYAL
PHONE# 630-733-1923
4032 N PARK STREET
WESTMONT, IL 60559

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

STORMWATER POLLUTION PREVENTION NOTES

- ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND DEVICES SHALL BE INSTALLED AND FUNCTIONAL BEFORE THE SITE IS OTHERWISE DISTURBED. THEY SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SITE STABILIZATION HAS BEEN ACHIEVED.
- PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED FOR REVIEW.
- THE GOVERNING AUTHORITIES HAVING JURISDICTION OVER THE PROJECT SITE MUST BE NOTIFIED ONE (1) WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE (1) WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE (1) WEEK PRIOR TO THE FINAL INSPECTION.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE GOVERNING AUTHORITY.
- IF AFTER REPEATED FAILURE ON THE PART OF THE CONTRACTOR TO PROPERLY CONTROL EROSION, POLLUTION, AND/OR SILTATION, THE GOVERNING AUTHORITIES RESERVE THE RIGHT TO EFFECT NECESSARY CORRECTIVE MEASURES AND CHARGE ANY COSTS TO THE CONTRACTOR.
- UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL LATEST EDITION.
- INLET PROTECTION SHALL BE INSTALLED AROUND EACH INLET OR CATCH BASIN. THESE SHALL BE MAINTAINED UNTIL THE TRIBUTARY DRAINAGE AREAS HAVE ADEQUATE GRASS COVER OR APPROPRIATE GROUND STABILIZATION.
- ALL STREETS ADJACENT TO THE SITE SHALL BE KEPT FREE OF DIRT, MUD AND DEBRIS.
- CONTRACTORS SHALL MINIMIZE BARE EARTH SURFACES DURING CONSTRUCTION.
- ALL DISTURBED AREAS SHOULD BE SEEDED OR SODDED WITHIN THREE (3) DAYS OF FINAL DISTURBANCE.
- WHENEVER DURING CONSTRUCTION OPERATIONS ANY LOOSE MATERIALS ARE DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, OR DITCHES SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THIS LOOSE MATERIAL SHALL BE REMOVED.
- ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY EXISTING STORM DRAINAGE SYSTEMS BY THE USE OF INLET PROTECTION OR OTHER APPROVED FUNCTIONAL METHODS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT RESULTING FROM CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT.
- CONSTRUCTION ACCESS POINTS TO THE SITE SHALL BE PROTECTED IN SUCH A WAY AS TO PREVENT TRACKING OF MUD OR SOIL ONTO PUBLIC THOROUGHFARES. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
- ALL CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE SITE FROM THE PROPOSED CONSTRUCTION ENTRANCE. THE USE OF ANY OTHER ACCESSSES IS PROHIBITED.
- DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED OR OTHERWISE DISCHARGED FROM THE SITE INTO SEDIMENT BASINS, SILT TRAPS, DEWATERING BAGS OR POLYMER MIXING SHALES. DEWATERING DIRECTLY INTO FIELD TILES, WETLANDS, ADJACENT PROPERTIES, PUBLIC RIGHTS-OF-WAY, STREAMS, LAKES, PONDS, RIVERS, OR STORMWATER SYSTEMS IS PROHIBITED.
- ALL STOCKPILES SHOULD BE STABILIZED WITHIN THREE (3) DAYS OF FORMING THE STOCKPILE.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN (7) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED AS FOLLOWS:
 - WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES ON A PORTION OF THE SITE IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.
 - WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED, (I.E. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 14 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASES.
- EROSION CONTROL BLANKETS SHALL BE USED IN AREAS OF 6:1 SLOPE OR STEEPER AND AS SHOWN ON THE PLANS.
- ALL DISTURBED GREEN SPACES WITHIN THE R.O.W. SHALL BE RESTORED WITH 6" OF TOPSOIL AND CLASS 2A SEEDING.
- THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT THE SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY SEEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING.
- ONCE ALL UPSTREAM AREAS ARE STABILIZED WITH SEED AND BLANKET OR SOD AS SHOWN IN THE PLANS, SILT FENCING SHALL BE REMOVED AND THE TRENCH SHALL BE RESTORED WITH TOPSOIL, SEED, FERTILIZER AND BLANKETING. RESTORATION SHALL OCCUR IMMEDIATELY FOLLOWING THE REMOVAL OF THE SILT FENCE. RESTORATION SHALL BE COMPLETED THE SAME WORKING DAY AS ANY SILT FENCING REMOVAL AND AT LEAST 2 HOURS BEFORE ANY FORECASTED PRECIPITATION.
- ALL TEMPORARY EROSION CONTROL AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE PROPERLY STABILIZED OR DISPOSED OFF BY THE CONTRACTOR.

STABILIZED CONSTRUCTION ENTRANCE PLAN



NOTES:

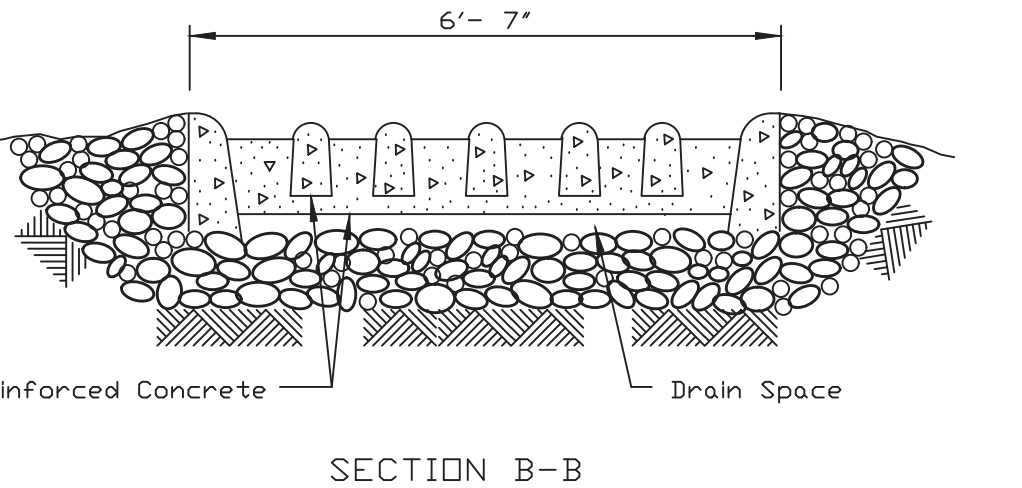
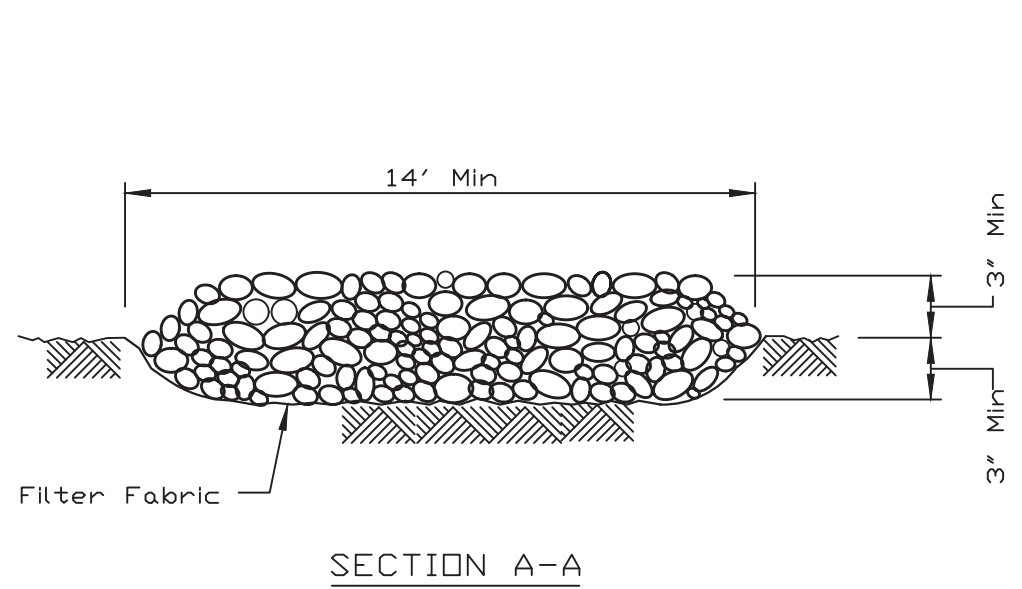
- Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rack.
- Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 R0CKFILL using placement Method 1 and Class III compaction.
- Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
- If wash racks are used they shall be installed according to the manufacturers specifications.

REFERENCE	U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE ILLINOIS	STANDARD DWG. NO. IL-630 SHEET 1 OF 2 DATE 8-18-94
Project _____		
Designed _____		
Checked _____		
Approved _____		

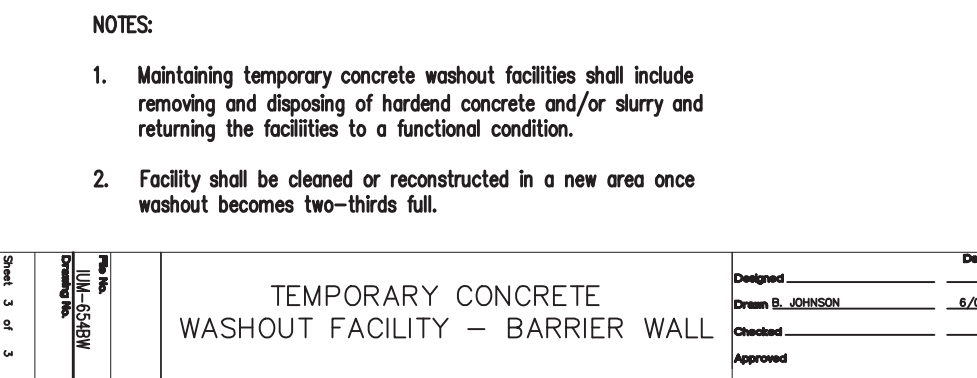
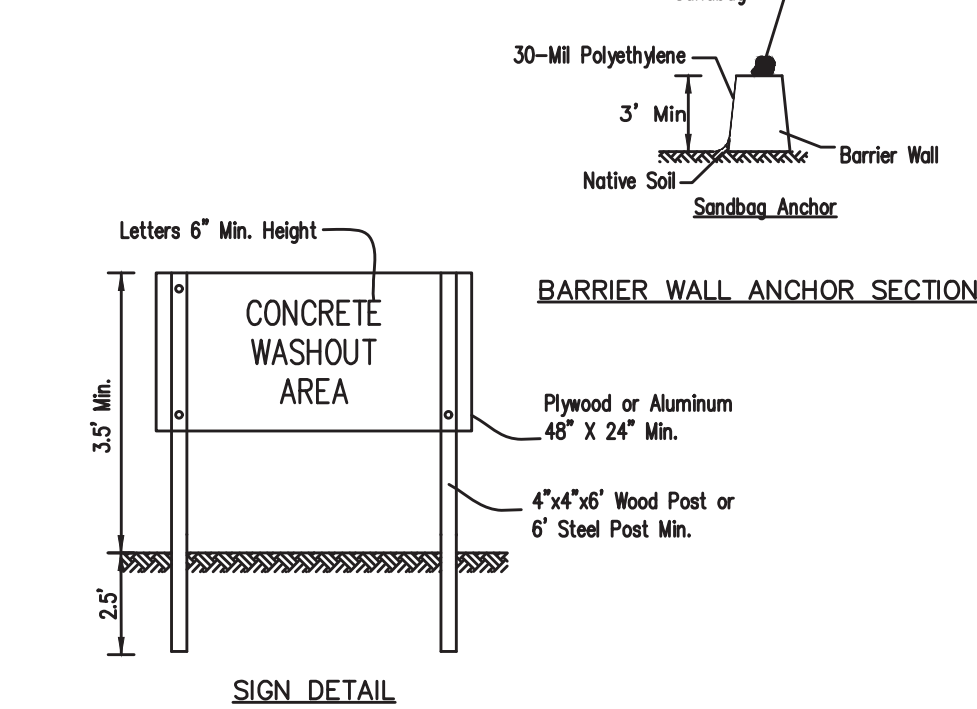
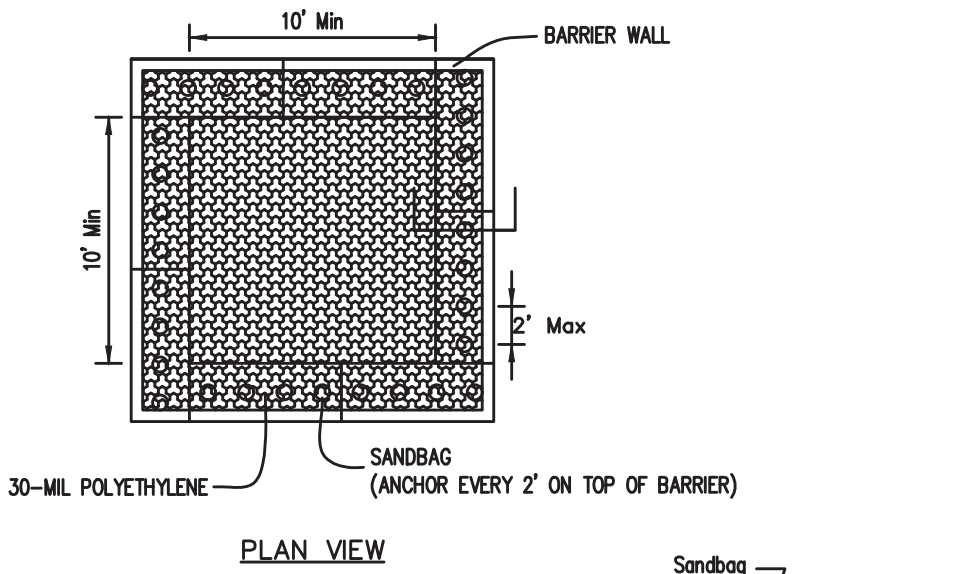
SOIL EROSION AND SEDIMENT CONTROL CONSTRUCTION SCHEDULE

- OBTAIN APPLICABLE SITE PERMITS AND REVIEW PROJECT'S STORMWATER POLLUTION PREVENTION PLAN (SWPPP). CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND UPDATING THE SWPPP THROUGHOUT THE DURATION OF CONSTRUCTION AS NECESSARY UNTIL FINAL SITE STABILIZATION IS ACHIEVED.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE.
- INSTALL PERIMETER SEDIMENT CONTROL MEASURES (E.G. SILT FENCE).
- INSTALL PROTECTION DEVICES FOR EXISTING DRAINAGE INLET AND OUTLET STRUCTURES, IF APPLICABLE.
- PERFORM SITE CLEARING AND GRUBBING AND REMOVE EXISTING VEGETATION AS NEEDED FOR INITIAL SITE GRADING OPERATIONS. VEGETATED SITE AREAS THAT ARE NOT INCLUDED WITH THE INITIAL GRADING SHALL REMAIN UNDISTURBED. ALL TOPSOIL STOCKPILES SHALL BE SURROUNDED WITH SILT FENCE AND STABILIZED WITHIN THREE (3) DAYS OF FORMING THE STOCKPILE.
- REMOVE ALL ITEMS NOTED FOR REMOVAL IN THE DEMOLITION PLAN.
- PERFORM ROUGH GRADING OPERATIONS, CONSTRUCT OVERFLOW ROUTES, AND STABILIZE ALL DISTURBED AREAS, INCLUDING BUT NOT LIMITED TO STEEP SLOPES, DRAINAGE CHANNELS AND SWALES (I.E. TEMPORARY AND PERMANENT SEEDINGS, EROSION CONTROL BLANKETS, RIP-RAP, CHECK DAMS, TEMPORARY DRAINAGE DIVERSIONS, ETC.).
- INSTALL TEMPORARY CONCRETE WASHOUT FACILITY.
- PROVIDE TEMPORARY SEEDINGS AND/OR MULCHING FOR ALL DISTURBED SITE AREAS THAT WILL NOT BE WORKED ON FOR MORE THAN FOURTEEN (14) DAYS.
- INSTALL CURBS AND BEGIN SITE PAVING OPERATIONS (I.E. DRIVEWAYS, SIDEWALKS, ETC.).
- COMPLETE REMAINING SITE IMPROVEMENTS.
- REMOVE TEMPORARY SITE EROSION AND SEDIMENT CONTROL MEASURES WITHIN THIRTY (30) DAYS OF FINAL SITE STABILIZATION.

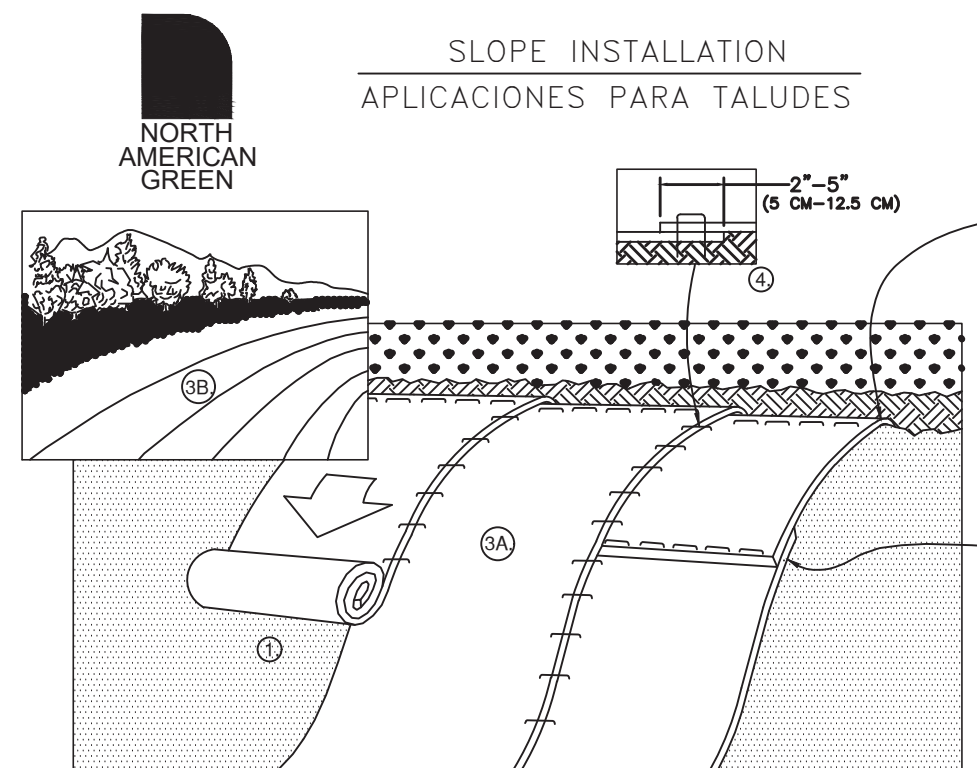
STABILIZED CONSTRUCTION ENTRANCE PLAN



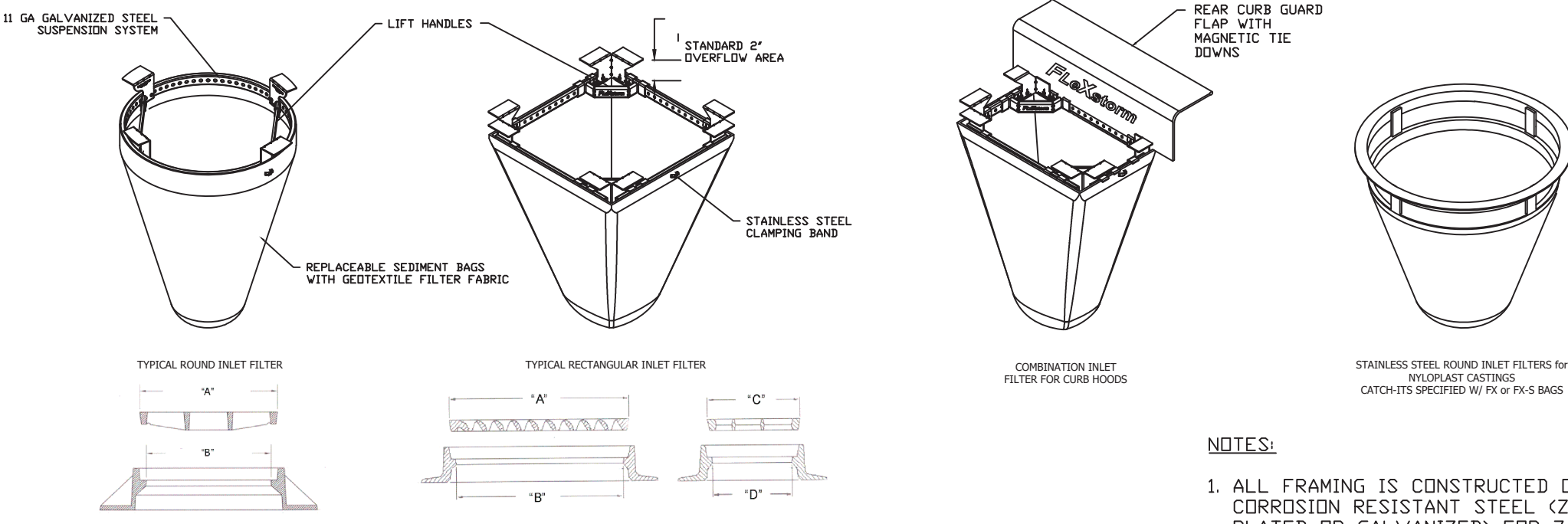
REFERENCE	U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE ILLINOIS	STANDARD DWG. NO. IL-630 SHEET 2 OF 2 DATE 8-18-94
Project _____		
Designed _____		
Checked _____		
Approved _____		



REFERENCE	U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE ILLINOIS	STANDARD DWG. NO. IL-630 SHEET 1 OF 2 DATE 8-18-94
Project _____		
Designed _____		
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FLEXSTORM CATCH-IT FILTERS FOR TEMPORARY INLET PROTECTION PRODUCT SELECTION AND SPECIFICATION DRAWING

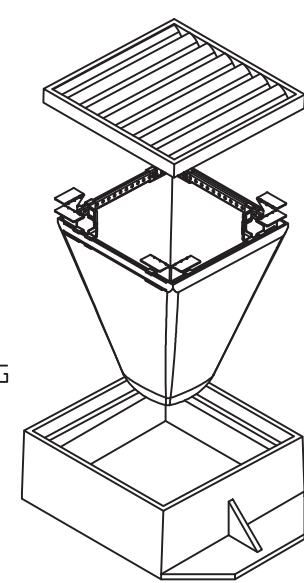


1. IDENTIFY YOUR FRAME STYLE AND SIZE	FRAME STYLE AND SIZE	Frame P/N
ROUND	Small Round (up to 20" dia) (A) (4' min)	625RD
	Med Round (20.1" - 26" dia) (A) (up to 25" dia) (B)	626RD
	Large Round (26.1" - 32" dia) (A) (up to 30" dia) (B)	628RD
	XL Round (32.1" dia - 38" dia) (A) (up to 37" dia) (B)	629RD
RECT / S	Small Rect / Square (up to 30" (B) x 15" (D) openings or 60" perimeter)	625RS
	Med Rect / Square (up to 24" (B) x 24" (D) openings or 90" perimeter)	626RS
	Large Rect / Square (up to 30" (B) x 24" (D) openings or 120" perimeter)	628RS
	XL Rect / Square (up to 36" (B) x 24" (D) openings or 120" perimeter)	629RS
COMBO	Small Rect / Square (ref Rect sizing, shipped with Magnetic Curb Flaps)	625CB
	Med Rect / Square (ref Rect sizing, shipped with Magnetic Curb Flaps)	626CB
	Large Rect / Square (ref Rect sizing, shipped with Magnetic Curb Flaps)	628CB
W/POPLAST	12" diameter W/POPLAST castings (Stainless Steel Framing standard)	6212NY
	15" diameter W/POPLAST castings (Stainless Steel Framing standard)	6215NY
	18" diameter W/POPLAST castings (Stainless Steel Framing standard)	6218NY
	24" diameter W/POPLAST castings (Stainless Steel Framing standard)	6224NY
	30" diameter W/POPLAST castings (Stainless Steel Framing standard)	6230NY

2. SELECT YOUR BAG PART NUMBER	1/2" depth	1/2" depth	1/2" depth	1/2" depth
	1/2" depth	1/2" depth	1/2" depth	1/2" depth
FX: Standard Woven Bag	FX	FX-S	200	40
IL: DOT Non-Woven Bag	IL	IL-S	145	70

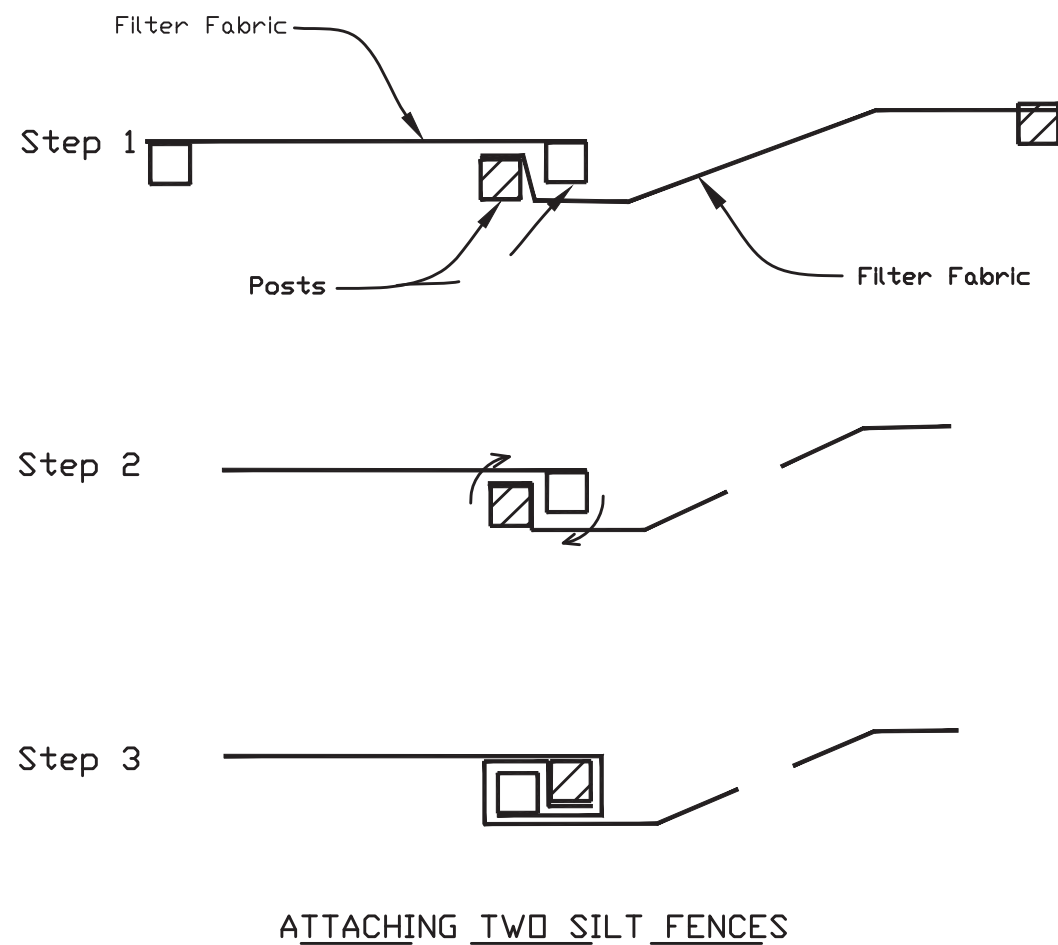
3. CREATE YOUR FLEXSTORM INLET FILTER PART NUMBER	Frame P/N from Step 1	Filter Bag P/N from Step 2

SPECIFICATIONS FOR STANDARD BAGS BY NOMINAL SIZE	1/2" depth	1/2" depth	1/2" depth	1/2" depth
	1/2" depth	1/2" depth	1/2" depth	1/2" depth
Nominal Bag Size	1/2" depth	1/2" depth	1/2" depth	1/2" depth
Solids Storage (CFS)	1.6	1.2	0.9	
Small	2.1	1.7	1.3	
Medium	2.1	1.7	1.3	
Large	2.8	2.7	1.9	
XL	4.2	3.6	2.6	



INSTALLATION:

- REMOVE GRATE
- DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
- REPLACE GRATE



- Place the end post of the second fence inside the end post of the first fence.
- Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
- Cut the fabric near the bottom of the stakes to accommodate the 6" flap.
- Drive both posts a minimum of 18 inches into the ground and bury the flap.
- Compact backfill (particularly at splices) completely to prevent stormwater piping.

REFERENCE	U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE ILLINOIS	STANDARD DWG. NO. IUM-620A SHEET 1 OF 2 DATE 3-16-12
Project _____		
Designed _____		
Checked _____		
Approved _____		



9422 W NATIONAL AVE,
WEST ALLIS, WI 53227

A-SQUARED ENGINEERING
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4032 N PARK ST WESTMONT, IL 60559
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SWPP

SHEET #

A-5



A-SQUARED ENGINEERING
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PH: 630-733-1923
EMAIL: INFO@A2ESC.COM

REV # 1 DT: 09/17/2024

RETAINING WALL DETAILS

SHEET #

A-6



1. PROVIDE FULL WALL HEIGHT AND WIDTH CONTROL JOINT EVERY 24' O.C.
2. PROVIDE EXPANSION AND CONTRACTION JOINTS.

DETAIL - CONCRETE RETAINING WALL WITH HANDRAIL
NOT TO SCALE



1. PROVIDE FULL WALL HEIGHT AND WIDTH CONTROL JOINT EVERY 24' O.C
2. PROVIDE EXPANSION AND CONTRACTION JOINTS.

DETAIL - CONCRETE RETAINING WALL
NOT TO SCALE



1. EXPANSION JOINTS TO BE INSTALLED AT EDGES OF ALL CASTINGS ADJACENT TO CONCRETE.

DETAIL - CONCRETE EXPANSION JOINT
NOT TO SCALE



NOT TO SCALE

DETAIL - CONCRETE CONTROL JOINT



NOT TO SCALE

DETAIL - 5" CONCRETE SIDEWALK