ABBREVIATIONS

ACTUAL JOINT ACT. **ADJACENT** LAVATORY ABOVE FINISHED FLOOR POUND(S) LOW POINT ALUMINUM MAXIMUM **APPROVED** MEZZANINE BD. BOARD MANUFACTUREF **BOTTOM OF** MECHANICAL CONTROL JOINT MINIMUM MISCELLANEOUS MASONRY OPENING M.O. MTL. COL. NORTH CONC. NOT IN CONTRACT CONST. CONSTRUCTION NUMBER CONTINUE, CONTINUOUS NO. CERAMIC TILE NOT TO SCALE ON CENTER CUBIC FOOT OCCUPANT/OCCUPANCY DIM. **OUTSIDE DIAMETER** DN. OPENING DOOR OPENING OPNG. D.S. **PLUMBING** DWG. **ELEVATION PAINTED** POUNDS PER SQUARE INCH QUANTITY **EQUIPMENT** E.W.C. REQUIRED ROOM **EXPANSION JOINT** FLOOR DRAIN **ROUGH OPENING** FIRE EXTINGUISHER CABINET SOUND ATTENUATION BLANKET FIRE HOSE CABINET SQUARE FEET F.H.C. FIN. SIM. SIMILAR **SPECIFICATION** FEET, FOOT **SQUARE** SOUND TRANSMITTANCE CRITERIA GALVANIZED STAINLESS STEEL GYP.BD. GYPSUM BOARD STD. STEEL HD. STRUCT.STRUCTURAL **HOLLOW METAL HIGH POINT** TOP OF H.P. THICK, THICKNESS THROUGH HEIGHT TYPICAL U.N.O. UNLESS NOTED OTHERWISE INSULATION V.C.T. VINYL COMPOSITION TILE INSUL. VERTICAL VERT.

DRAWING SYMBOLS

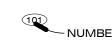
WALL / PARTITION ROOM TAG

ROOM NAME NAME 101 NUMBER ---- AREA

DOORS

VERIFY IN FIELD

WOOD



CALLOUT

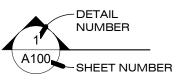
INTERIOR ELEVATION DETAIL NUMBER

FIRE SEPARATION RATING

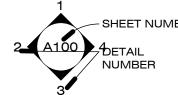
- SHEET NUMBER 2-A100-4- DETAIL NUMBER

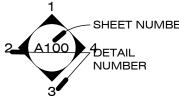
SECTION

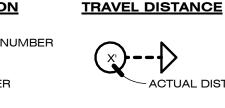
A100 SHEET NUMBER



EXTERIOR ELEVATION

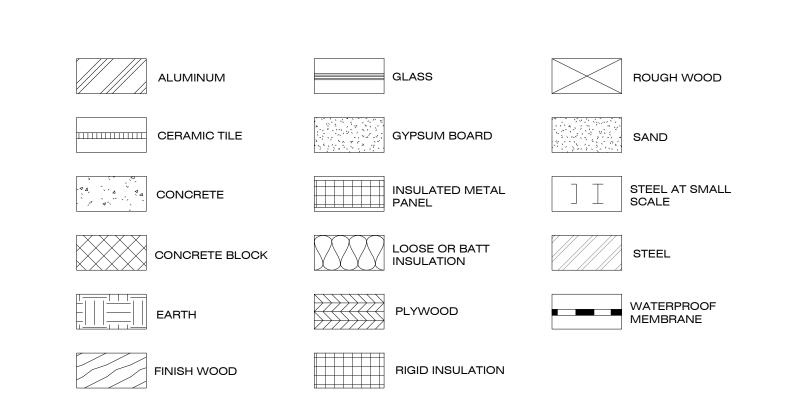






ACTUAL DISTANCE

MATERIAL SYMBOLS



SPECULATIVE OFFICE BUILDING

1250 WINDHAM PARKWAY ROMEOVILLE, ILLINOIS 60446



DRAWING LIST

RENDERING LOOKING NORTHEAST SD-14B RENDERING LOOKING NORTHEAST AT COURTYARD RENDERING LOOKING NORTHWEST

TITLE T-100 TITLE SHEET T-101 **CODE ANALYSIS** CIVIL

C1 TITLE SHEET GN TYPICAL SECTIONS AND GENERAL NOTES ET1 **EXISTING CONDITIONS** DEMOLITION PLAN

GEOMETRIC PLANS GM1 GR1 **GRADING PLANS**

SE1 SOIL EROSION AND SEDIMENT CONTROL PLAN SE2 SOIL EROSION AND SEDIMENT CONTROL PLAN SOIL EROSION AND SEDIMENT CONTROL PLAN

SE3 SP1 **SPECIFICATIONS SPECIFICATIONS** D1 **DETAILS** D2 **DETAILS**

DETAILS

LANDSCAPE L-101

LANDSCAPE PLAN L-201 LANDSCAPE DETAILS

ARCHITECTURE A-100

SITE PLAN FLOOR PLAN A-101 A-102 ROOF PLAN A-300 **EXTERIOR ELEVATIONS** A-301 **EXTERIOR ELEVATIONS** A-302 **EXTERIOR ELEVATIONS** A-350 BUILDING SECTIONS A-400 WALL SECTIONS A-401 WALL SECTIONS A-402 DETAILS A-500 **ENTRY CANOPY** A-501 TRASH ENCLOSURE & DETAILS A-600 **ENLARGED FLOOR PLANS & PARTITION TYPES**

STRUCTURAL

A-900

S-100 FOUNDATION PLAN ROOF FRAMING PLAN S-101

S-200 GENERAL NOTES DETAILS SCHEDULES S-201 **DETAILS**

DOOR SCHEDULE & DOOR DETAILS



PROJECT LOCATION MAP

PROJECT DESCRIPTION

- NEW CONSTRUCTION OF A MULTI-TENANT SPECULATIVE OFFICE BUILDING
- 100% AUTOMATIC SPRINKLER SYSTEM
- ZONING DISTRICT = P-B PLANNED BUSINESS
- OCCUPANCY GROUP = BUSINESS GROUP B
- CONSTRUCTION TYPE = TYPE II-B, STEEL ROOF STRUCTURE SUPPORTED BY STEEL COLUMNS WITH MASONRY CAVITY BEARING WALLS
- TOTAL BUILDING AREA = 43,227 GROSS S.F.
- NUMBER OF EXITS = 10 EXITS
- MAX. TRAVEL DISTANCE ALLOWED = 300' (75' ACTUAL MAX.)

APPLICABLE CODES

(WITH LOCAL AMENDMENTS TO EACH)

- 2015 INTERNATIONAL BUILDING CODE
- 2014 STATE OF ILLINOIS PLUMBING CODE
- 2015 INTERNATIONAL MECHANICAL CODE
- 2014 NATIONAL ELECTRIC CODE
- 2015 INTERNATIONAL FIRE CODE

• 2015 INTERNATIONAL CONSERVATION CODE

CODE COMPLIANCE STATEMENTS

I CERTIFY THAT THESE PLANS WERE PREPARED UNDER MY PERSONAL SUPERVISION AND TO THE BEST OF MY KNOWLEDGE, CONFORM TO THE STATE OF ILLINOIS ACCESSIBILITY STANDARDS AND THE POLICY OF THE <u>VILLAGE OF ROMEOVILLE</u> TO FACILITATE THE MOBILITY OF PEOPLE WITH DISABILITIES.

SIGNATURE:

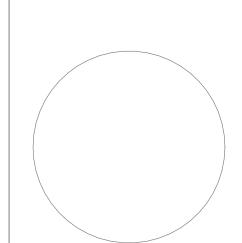
SANDER H. KAPLAN AIA

I CERTIFY THAT THESE PLANS WERE PREPARED UNDER MY PERSONAL SUPERVISION AND TO THE BEST OF MY KNOWLEDGE, CONFORM TO THE **2015 INTERNATIONAL BUILDING CODE.**

SIGNATURE:

SANDER H. KAPLAN AIA

<u>SEAL</u>



EXPIRES 11/30/16

405 N. RACINE AVE SUITE 107B CHICAGO, IL 60642

ARCHITEKTEN CORP.

T: 312.243.2155

www.skjn.com PROFESSIONAL DESIGN FIRM #: 184.006454 EXPIRES



REVISED FOR ZONING ISSUED FOR BID/ZONING DESCRIPTION SPECULATIVE OFFICE **BUILDING**

1250 WINDHAM **PARKWAY**

TITLE SHEET

PROJECT NUMBER 12/01/2017 DRAWN BY

CHECKED BY T-100

SCALE As indicated

01/19/18

12/01/17

DATE

Section 159.75 P-B, BUSINESS/COMMERCIAL DISTRICT GENERAL REQUIREMENTS

	, , , , , , , , , , , , , , , , , , ,		I
Zoning Map	Zoning District Classification	P-B Planned Business	P-B Planned Business
159.70-E-5	Side Yard Parking Setback	Parking is permitted in interior side yards provided that said side yard abuts commercially or industrially used or zoned property. A minimum setback of five feet shall be provided unless parking is shared.	-
159.70-J-1	Ingress/Egress onto a Public Street	Access is limited to not more than two (2) points of ingress and/or egress per lot.	-
159.70-J-2	Ingress/Egress onto a Public Street	Minimum width to be twenty-four (24) feet at propertly line. Maximum width to be that of forty (40) feet at propertly line, unless additional width is required for safe access. This can include, but not limited to, two (2) through lanes, one (1) left turning lane and an appropriately landscaped island.	-
159.75-B	Permitted Uses	 2) Offices: business, professional, governmental and medical 4) Industrial type uses shall include the following: a) Food processing, handling, distribution and warehousing. b) Laboratories, offices, and other facilities for research testing, data analysis and development; c) Light manufacturing and assembly; d) Printing and publishing; e) Storage and distribution not including bulk commodities or motor freight terminals; f) Product research and development; g) Warehouse including sotrage of materials, goods or products and office uses related thereto, provided that all storage occurs within a completely enclosed building; h) Showrooms and distribution facilities. 	-
159.75-B	Landscaping / Open Space	Not less than fifteen percent (15%) of the lot area shall be provided for landscaping and open space purposes.	-
159.75-E-5	Lot coverage / Impervious Surface	Lot coverage/impervious surface shall not exceed sixty percent (60%) of the lot. Lot coverage plus impervious surface coverage shall not exceed a total of eighty-five percent (85%) of the total lot.	Total Lot Area = 175,296.87 SF Lot Coverage/ Impervious Surfaces = 125,469.72 SF 125,469.72 SF/ 175,296.87 SF = 71.5% Need 11.5% more permeable surfaces (approx. 20,000 SF)
159.75-E-6	Building Height	The height of any building or structure shall not exceed three (3) stories of fifty (50) feet, except as provided for in increased yard setbacks where additional building height is being considered, the setback or the required yard shall be increased by half (1/2) a foot for each foot of building height in excess of fifty (50) feet. Parking shall be permitted in the additional yard.	-
159.75-E-7-a	Building Setbacks - Front Yard	Front yards, shall be not less than fifty (50) feet in depth along Major or Secondary Arterials, or a Major Collector as defined by section 159.03 and the Village of Romeoville Master Transportation Plan (157.03E), or thirty-five (35) feet along all other roadways.	Front yard setback = 35 feet, Windham Parkway = minor collector street
159.75-E-7-b	Building Setbacks - Side yard	Side yards, there shall be two side yards, neither of which shall be less than twenty (20) feet in width, except as proveded by the divisions below.	-
159.75-E-7-d 159.75-E-8	Building Setbacks - Rear and Side Yards adjacent to water areas Floor Area Ratio (F.A.R.)	When fifty percent (50%) or more of a rear or side property line is immediately adjacent to a natural water area or a storm water retention/detention area which includes, at its narrowest point, a minimum width of twenty (20) feet, the required rear and side yard shall be ten (10) feet. This provision shall only apply if adequate access is available to said water area. The floor area ratio shall not exceed six tenths (0.60) for a single story building, nor one (1.00) for a multi-story building.	Rear yard setback shall be 10 feet 103,881 SF Max Building Area
159.75-E-9-b	Off-Street Parking, Loading/Unloading	Off-Street Parking, Loading/Unloading. Off-street parking and loading facilities shall be provided as required or permitted by Sections 159.105 through 159.111 of this Chapter, except parking setbacks shall be as follows: (i) Front Yard: Thirty-five (35) feet; (ii) Side or Rear Yard: Ten (10) feet.	-

Section 159.105 OFF-STREET PARKING GENERAL REQUIREMENTS

159.108-C-1	Parking Space Size	A required off-street parking space in all districts shall be at least nine feet six inches (9'-6") in width (WP) and at least eighteen (18) feet in length.	-
159.108-C-1-d	Parking Aisle Size	Ninety (90) degree angle with eighteen foot (18') stall length (SL), twenty-six foot (26') aisle width (AW), and sixty-two foot (62') wall to wall (W) measured to and from edge of pavement, acommodating two-way aisle travel.	-
159.108-D-2	Parking Area Surfacing	All open off-street parking areas, including driveways and aisles, shall be improved with a compacted stone base, not less than eight (8) inches thick, surfaced with not less than three (3) inches of compacted asphalt or concrete as approved by the Village.	-

Section 159.109 SCHEDULE OF OFF-STREET PARKING REQUIREMENTS

159.109-D	Parking Quantity Requirements	Offices (business, professional or governmental). One (1) parking space for each 250 square feet of floor area on the ground, first or single floor area.	-
159.108-G	Parking Quantity Requirements	Warehouse and storage buildings: One (1) parking spaces shall be provided for each employee; Plus one (1) space for each vehicle used in the conduct of the enterprise.	-
159.108-D-2	Parking Area Surfacing	All open off-street parking areas, including driveways and aisles, shall be improved with a compacted stone base, not less than eight (8) inches thick, surfaced with not less than three (3) inches of compacted asphalt or concrete as approved by the Village.	-

Section 159.115 SIZE, ACCESS AND DESIGN OF LOADING, UNLOADING AND OUTDOOR STORAGE

159.115-A-1	Loading off-street size	Each off-street loading, unloading and outdoor storage space provided on a zoning lot shall be at least twelve (12) feet in width and least fifty (50) feet in length.	-
159.115-A-2	Loading off-street access	Each required off-street loading, unloading and outdoor storage space shall be designed with appropriate means of vehicular access to a street or alley in a manner which will lease with traffic movements.	-
159.115-B-2	Design and Maintenance. Sufacing	All open off-street loading, unloading and outdoor storage areas, including driveways and aisles, shall be improved with a compacted stone base, not less than eight (8) inches thick, surfaced with not less than three (3) inches of compacted asphalt or concrete as approved by the Village.	-

INTERNATIONAL BUILDING CODE 2015

CHAPTER/SECTION		REQUIREMENTS	COMMENTS
3 - Use and Occupancy Class		sification	
304.1	Business Group B	Office, Business Group B	Future speculative office areas
5 - Gener	al Building Heights	and Areas	
Table 504.3	Allowable Height	B Occupancy, Type IIB w/ Automatic Sprinkler System = 75'-0"	Proposed: 18'-0" to top of coping.
Table 504.4	Allowable Stories	B Occupancy, Type IIB w/ Automatic Sprinkler System = 4 Stories	Proposed: 1 Story
Table 506.2	Allowable Building Areas	B Occupancy, Type IIB w/ Automatic Sprinkler System = 92,000 S.F.	Proposed: 43,227 S.F. Exception Section 507.4 Unlimited Area Buildings
507.4	Sprinklered, one story	Not Limited with automatic sprinkler system throughout	Proposed automatic sprinkler system
6 - Types	of Construction		
602	Construction Classification Fire-resistance rating	Type II-B	Steel roof deck supported on steel bar joists with steel interior columns and load bearing masonry cavity exterior walls
Table 601	requirements for Structural Frame	О	-
Table 601	Fire-resistance rating requirements for Bearing walls (exterior, interior)	0	-
	Fire-resistance rating requirements for		
Table 601	Nonbearing walls (interior) Fire-resistance rating	0	-
Table 601	requirements for Floor Construction	0	-
Table 601	requirements for Roof Construction (including beams, joists)	0	-
7 - Fire-R	esistance-Rated Co	nstruction	
705.5	Exterior Walls	Exterior walls shall be fire-resistance rated in accordance with Table 602 = 0 hours	Exterior Wall: Masonry cavity wa
9 - Fire Pr	otection Systems		
903	Automatic Sprinkler Systems	Automatic sprinkler system not required.	100% Automatic ESFR sprinkler system shall be proposed. Contractor shall submit proposed fire protection drawings to the city for review prior to sprinkler system work.
913.2.1	Protection of Fire Pump Rooms	With an automatic sprinkler system, fire pumps shall be separated from all other areas by a 1 hr fire separation.	Fire Pump Room shall be separated by 1 HR fire separation. Refer to Floor Plan (1/A-101)
10 - Mear	ns of Egress		
Table 1004.1.2	Occupant Load	Business =100 SF/Occupant	43,227 S.F. / 100 S.F. per occupant = 433 Occupants Future Building Fit Out: 433/5 Tenants = 87 Occupants
			700/0 Teriaints – 07 Occupants

Occupant Load: 1-500 = 2 Exits

The means of egress illumination level shall not be less

Doors shall swing in the direction of egress travel where serving

The force for pushing or pulling open interior swinging egress doors, other than fire doors, shall not exceed 5 pounds. For other

swinging doors, the door latch shall release when subjected to a

Egress doors shall be readily openable from the egress side

without use of key or special knowledge or effort.

15-pound force. the door shall be set in motion when subjected to a 30-pound force. The door shall swing to a full-open position

than 1 footcandle (11 lux) at the walking surface

an occupant load of 50 or more persons

when subjected to a 15-pound force.

With sprinkler system, Group B = 300'

.2" per occupant

minimum 32" clear

Table 1017.2 Exit Access Travel Distance Actual travel distance = 75' Max. < 250'

1005.3.2 Occupant served

1006.2 Egress Illumination

1010.1.3 Door Opening Force

1010.1.9 Door Operations

1010.1.1 Size of Doors

1010.1.2.1 Door Swing

1006.3.1

Egress Width per

Minimum Number of

ARCHITEKTEN CORP.

405 N. RACINE AVE SUITE 107B CHICAGO, IL 60642

T: 312.243.2155

www.skjn.com PROFESSIONAL DESIGN FIRM #: 184.006454 EXPIRES 4/30/2019

2	REVISED FOR ZONING	01/19/18
1	ISSUED FOR BID/ZONING	12/01/17
		1
NO.	DESCRIPTION	DATE
	1	ı

.2" x 433 Occupants = 87"
Proposed = 540"
Future Building Fit Out:
.2"x87 Occupants = 18"

Future Building Fit Out: 2 Exits Provided Per Tenant

Proposed automatic sprinkler

Proposed = 108" Proposed = 10 Exits

Provided: 36" Min.

SPECULATIVE OFFICE BUILDING

1250 WINDHAM **PARKWAY**

CODE ANALYSIS

PROJECT NUMBER 1709 12/01/2017 DRAWN BY CHECKED BY

T-101

SCALE 12" = 1'-0"

FINAL SITE IMPROVEMENT PLANS

1250 WINDHAM PARKWAY SPECULATIVE OFFICE BUILDING

ROMEOVILLE, ILLINOIS SPACECO PROJECT NO: 9942

DEVELOPER

LAKEVIEW REALTY INVESTORS 701 WEST ERIE STREET CHICAGO, IL 60654 PHONE: 312,651,6262

> CALL J.U.L.I.E. 1-800-892-0123 WITH THE FOLLOWING:

COUNTY WILL CITY, TOWNSHIP ROMEOVILLE SEC. & 1/4 SEC. NO. **T37N, R10E, SEC. 29**

> 48 HOURS BEFORE YOU DIG. **EXCLUDING SAT., SUN. & HOLIDAYS**

		INDEX						
SHEET #	SHEET I.D.	SHEET DESCRIPTION						
1	C1	TITLE SHEET						
2	GN	TYPICAL SECTIONS AND GENERAL NOTES						
3	ET1	EXISTING CONDITIONS						
4	DEMO1	DEMOLITION PLAN						
5	GM1	GEOMETRIC PLAN						
6	GR1	GRADING PLAN						
7	UT1	UTILITY PLAN						
8-10	SE1-SE3	SOIL EROSION AND SEDIMENT CONTROL PLAN						
11-12	SP1-SP2	SPECIFICATIONS						
13-16	D1-D4	DETAILS						

BENCHMARK

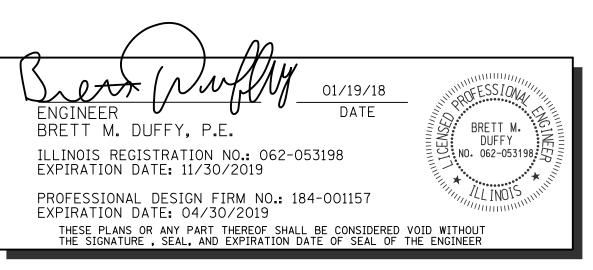
SEE SHEET GN FOR BENCHMARK INFORMATION

NOTE:

SPACECO, INC. IS TO BE NOTIFIED AT LEAST THREE (3) DAYS PRIOR TO STARTING CONSTRUCTION AND SHALL BE INCLUDED IN THE PRECONSTRUCTION MEETINGS

LOCATION MAP Crossroads Parkway

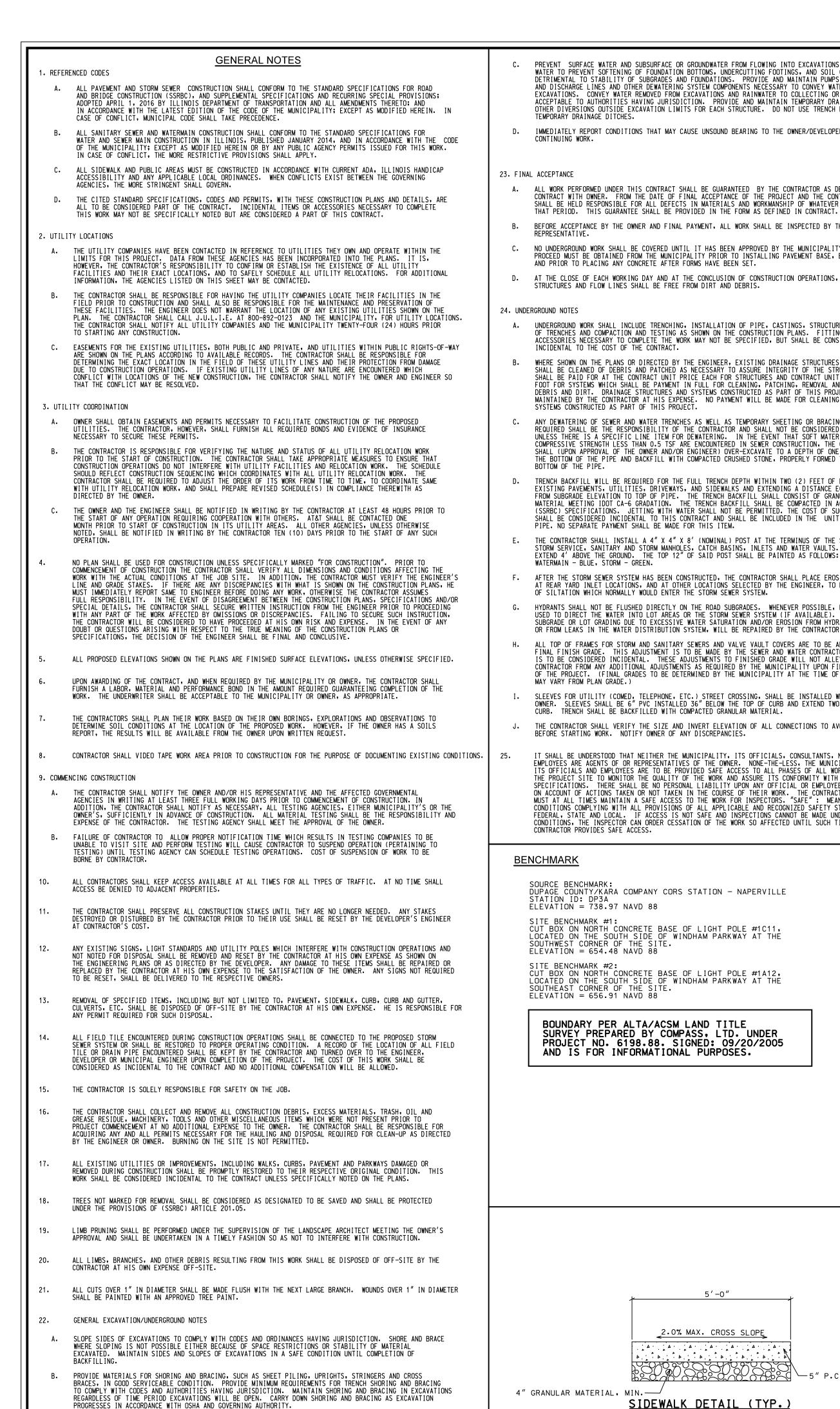
DRAINAGE STATEMENT I, BRETT M. DUFFY, HEREBY CERTIFY THAT ADEQUATE STORM WATER STORAGE AND DRAINAGE CAPACITY HAS BEEN PROVIDED FOR THIS DEVELOPMENT, SUCH THAT SURFACE WATER FROM THE DEVELOPMENT WILL NOT BE DIVERTED ONTO AND CAUSE DAMAGE TO ADJACENT PROPERTY FOR STORMS UP TO AND INCLUDING THE ONE HUNDRED (100) YEAR EVENT, AND THAT THE DESIGN PLANS ARE IN COMPLIANCE WITH ALL APPLICABLE STATE, COUNTY, AND VILLAGE ORDINANCES. BRETT M. DUFFY, P.E. ILLINOIS REGISTRATION NO. 062-053198 EXPIRATION DATE: 11/30/2019 BRETT M. C. REGISTERED PROFESSIONAL ENGINEER OWNER OR OWNER'S DULY AUTHORIZED AGENT



	REVISIONS					
ORIGINAL PLA		RIGINAL PLAN DATE: DECEMBER 1, 2017				
#	SHEET #	REMARKS	DATE			
1	4-7,10	REVISED PER ZONING	01/19/18			



N:\Projects\9942\ENG\9942TITLE.dgn Default User=randerson



N:\Projects\9942\ENG\9942GN.dgn Default User=randerson



2.0% MAX. CROSS SLOPE

(4,000 PSI) P.C.C.

THIS PERMEABLE PAVEMENT DETAIL IS A RECOMMENDED MINIMUM AND MUST BE DESIGNED BY A PROFESSIONAL ENGINEER. ALL AGGREGATE MATERIAL SHALL BE CRUSHED. ANGULAR STONE AND FREE OF FINES. SURFACE WATER FLOW _UNILOCK ECO-OPTILOC PAVER. STANDARD FINISH, COLOR NATURAL COMPACT SUBSOIL WITH A CALIFORNIA BEARING PERMEABLE JOINT OPENING AGGREGATE: RATIO (CBR) OF LESS THAN 5% AS DIRECTED BY OPEN-GRADED, CRUSHED, ANGULAR STONE A PROFESSIONAL ENGINEER. ASTM NO. 8 OR 1/8 TO 3/16 INCH GRANITE CHIP (2-5 MM) SURFACE SLOPE SHALL BE A MINIMUM OF 1% AND 1-1/2" PERMEABLE SETTING BED AGGREGATE: A MAXIMUM OF 5%. OPEN-GRADED, CRUSHED, ANGULAR STONE; ASTM NO. 8 INSTALL PVC UNDERDRAIN PIPE WHERE INFILTRATION RATE OF SUBSOIL IS LESS THAN 0.5 -6" MIN. PERMEABLE BASE AGGREGATE: IN./HR. SIZE AS DIRECTED BY A PROFESSIONAL OPEN-GRADED, CRUSHED, ANGULAR NEVER BUILD PERMEABLE PAVEMENTS ON ORGANIC -16" MIN. PERMEABLE SUBBASE AGGREGATE: OPEN-GRADED, CRUSHED, ANGULAR STONE CLAY SOILS OF HIGH PLASTICITY AND/OR PEAT, MULCH, SOILS WITH HIGH ORGANIC CONTENT. - SUBGRADE MATERIAL: MAINTAIN A MINIMUM DISTANCE OF 2' BETWEEN MIN. CBR - 5% (COMPACT IF LESS THAN 5%) BOTTOM OF PERMEABLE BASE AND WATER TABLE. SLOPE TO DRAIN - GEOTEXTILE MATERIAL; INSTALL AS THE MINIMUM AGGREGATE THICKNESSES ARE AFTER DIRECTED BY A PROFESSIONAL ENGINEER - PVC UNDERDRAIN PIPE; INSTALL IF CROWN ROADWAY APPLICATIONS AT A 1.5 TO 1.7% INFILTRATION IS LESS THAN 0.5 IN./HR.; SLOPE FOR INCREASED PAVEMENT STIFFNESS. WRAP WITH GEOTEXTILE (CROWNING IS NOT FOR DRAINAGE PURPOSES.) O) ONLY USE CRUSHED, ANGULAR GRANITE CHIPS FOR JOINT MATERIAL IN ROADWAY APPLICATIONS.

DESIGNED TO CONNECT. E NAME: CS-COM-PERM-T5-2014.DWG SPACECO NOTES INSTALLATION OF PAVERS AND UNDERLYING PAVEMENT SECTION SHALL BE PER MANUFACTURER SPECIFICATIONS AND RECOMMENDATIONS.
 UNDERDRAIN SHALL BE PROVIDED WHERE SHOWN ON UTILITY PLAN. PIPE SHALL BE 4" PERFORATED PVC SDR 35 WITH FILTER SOCK.
 CONCRETE BAND TO BE PROVIDED WHERE SHOWN ON PLAN. SEE DETAIL ON THIS SHEET.
 SEE SHEET SP1 FOR ADDITIONAL EARTHWORK AND PAVING NOTES. IN CASE OF CONFLICT WITH DETAIL ABOVE. THE MORE STINGENT REQUIREMENT SHALL APPLY.
 PAVER PLACEMENT TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO POURING ADJACENT CONCRETE BANDS. ADJUSTMENTS MAY BE NEEEDED TO CONCRETE BANDS TO MINIMIZE PARTIAL/CUT PAVER BLOCKS.

OMMERCIAL APPLICATION

ERMEABLE PAVER DETAIL

JANUARY 30, 2014

): | OCTOBER 11, 20

LEGEND DESCRIPTION PROPOSED DRAIN TILE —)————)— | STORM SEWER **-**)-----—>---->- | SANITARY SEWER PIPE TRENCH BACKFILL —g———g—∣GAS MAIN TELEPHONE LINES -E-E-E- | ELECTRIC LINE <u>----</u>х-------×---RIGHT-OF-WAY ______ _____ _ _ _ _ _ _ _ EASEMENT _____ PROPERTY LINE CENTERLINE ____ --*680* ---CONTOUR ----680-----SANITARY MANHOLE 0 STORM MANHOLE CATCH BASIN INLET FIRE HYDRANT PRESSURE CONNECTION PIPE REDUCER VALVE AND VAULT, VALVE FLARED END SECTION STREET LIGHT UTILITY POLE CONTROL POINT SPOT ELEVATION XXX.XX XXX.XXSOIL BORING • OVERLAND FLOW ROUTE DRAINAGE SLOPE **~~** OR —▶ ---- GUARDRAIL WATER'S EDGE ~···~ CONCRETE REVERSE PITCH CURB TREE, FIR TREE, BUSH, &

	PROPOSED TREE TO REMOVE	\propto
	ABBREVIATIONS	
M - STORM MANHOLE	I = INVERT OR INLET	T/P = TOP OF PIPE
S = SANITARY MANHOLE	TF = TOP OF FOUNDATION	B/P = BOTTOM OF PIPE
CB = CATCH BASIN	GF = GARAGE FLOOR	WM = WATERMAIN
LP = LIGHT POLE	TC = TOP OF CURB	SAN = SANITARY SEWER
VV = VALVE VAULT	TD = TOP OF DEPRESSED CURB	STM = STORM SEWER
E = END SECTION	TW = TOP OF RETAINING WALL	LO = LOOK OUT
FH = FIRE HYDRANT	BW - BOTTOM OF RETAINING WALL	PLO = PARTIAL LOOK OUT
GR = GRADE RING (HYDRANT)	OP = OUTLET OF PIPE	

	PERMITS		
DESCRIPTION	LOG NO.	PERMIT NO.	DATE ISSUED
I.D.N.R.			
I.H.P.A.			
NOI			
IEPA WATER			

CONTACT INFORMATION

(812) 759-7967

NICOR GAS

1844 FERRY ROAD

NAPERVILLE, IL 60563 (630) 388-3046

CONTACT: BRUCE KOPPANG

<u>METRO FIBERNET.LLC</u>

ONEOK NORTH SYSTEM, LLC

PHONE - (580) 395-6285 CONTACT: TELISA MCDOWELL

VILLAGE ENGINEER VILLAGE OF ROMEOVILLE 615 ANDERSON DRIVE ROMEOVILLE, ILLINOIS 60446 CONTACT: JONATHON A. ZABROCKI, P.E.

PHONE: (815) 886-1870

COMCAST 688 INDUSTRIAL DRIVE ELMHURST, IL 60126 (224) 229-5849 CONTACT: MARTHA GIERAS

VINAKOM COMMUNICATIONS

PHONE - (847) 882-8200 CONTACT: SCOTT NEVILLE

CONTACT: MIKE PRICE

ATT/DISTRIBUTION

1000 COMMERCE DRIVE

OAK BROOK, IL 60523 PHONE - (630) 573-5530

CONTACT: DONNA SZPYTEK

SPACECO INC

NOT

GENERAL

9

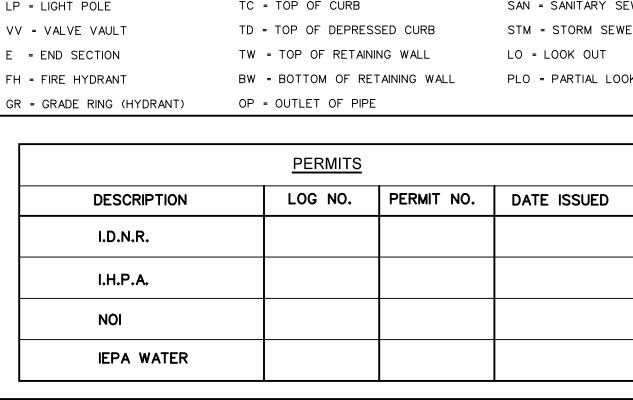
PICAL SECTIONS AND 1250 WINDHAM SPECULATIVE OFF

ARKW/ E BUIL

ILENAME:

9942GN

─5" P.C.C. SIDEWALK SIDEWALK DETAIL (TYP.)



(630) 576-7094

AGGREGATE BASE COURSE, TYPE B

AGGREGATE BASE COURSE, TYPE B

CROSS SECTION

UNILOCK

PARTIAL INFILTRATION

WITH UNDERDRAIN

HEAVY DUTY

SUB-GRADE

- COMPACTED

SUB-GRADE

HMA PAVEMENT SECTION (DRIVE AISLES)

CONCRETE PAVEMENT SECTION

N.T.S.

12" PORTLAND CEMENT CONCRETE

COMPACTED AND STABLE SUBGRADE

<u>CONCRETE BAND DETAIL</u>

─4" MIN. AGGREGATE BASE COURSE, TYPE B

This cross section is

design purposes only.

intended for preliminary

Confirm site conditions an

installer prior to installation

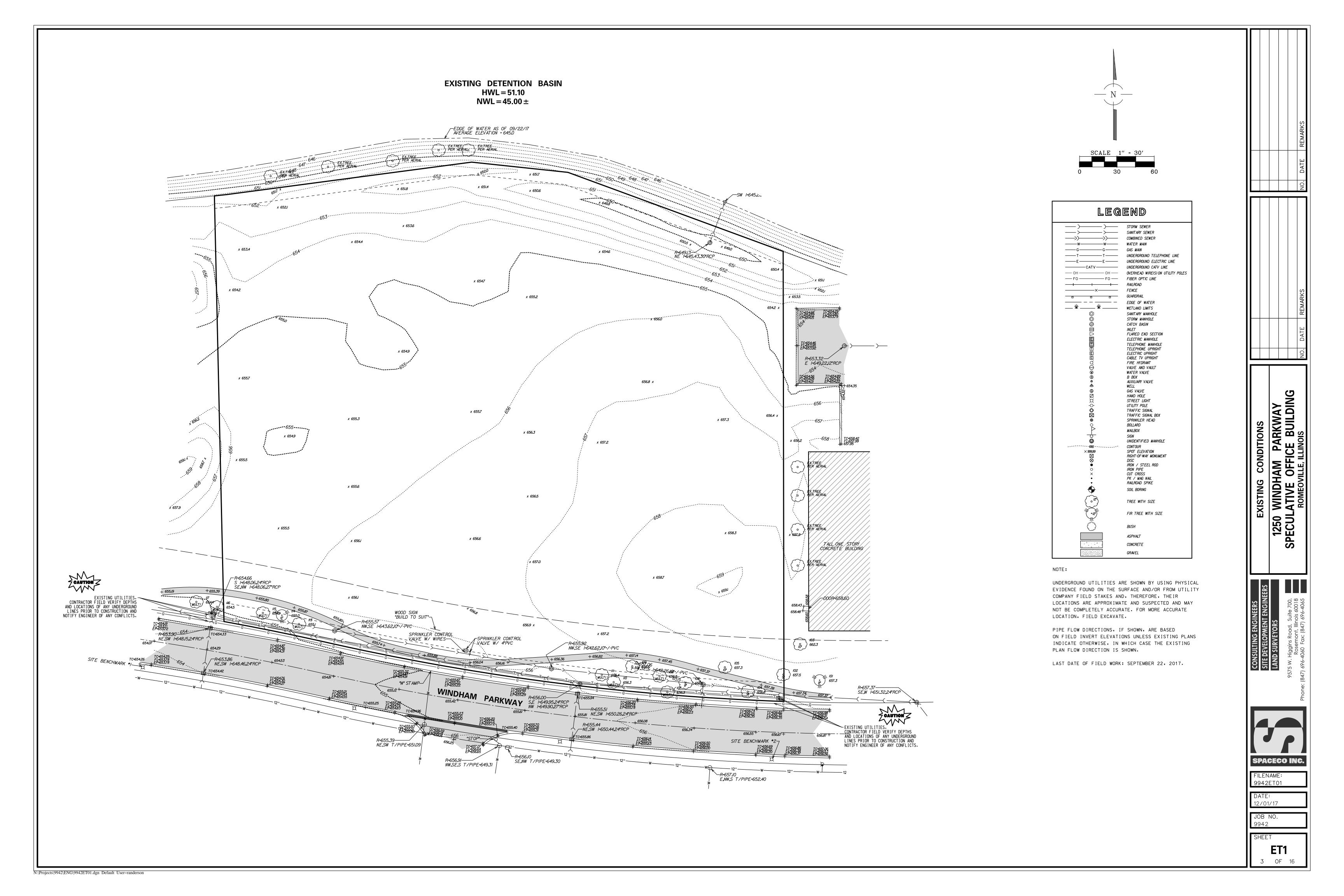
consult with a qualified

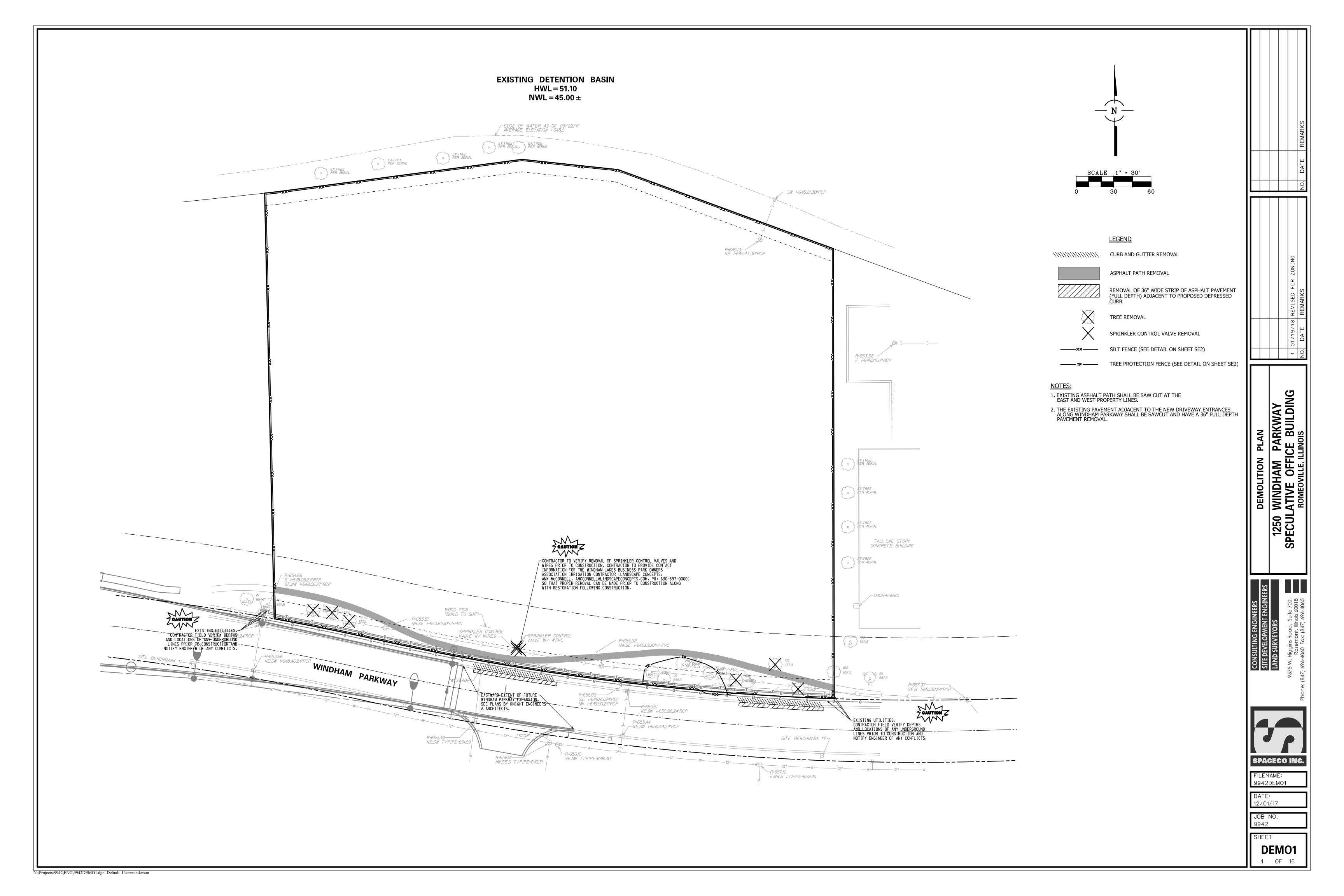
design professional or

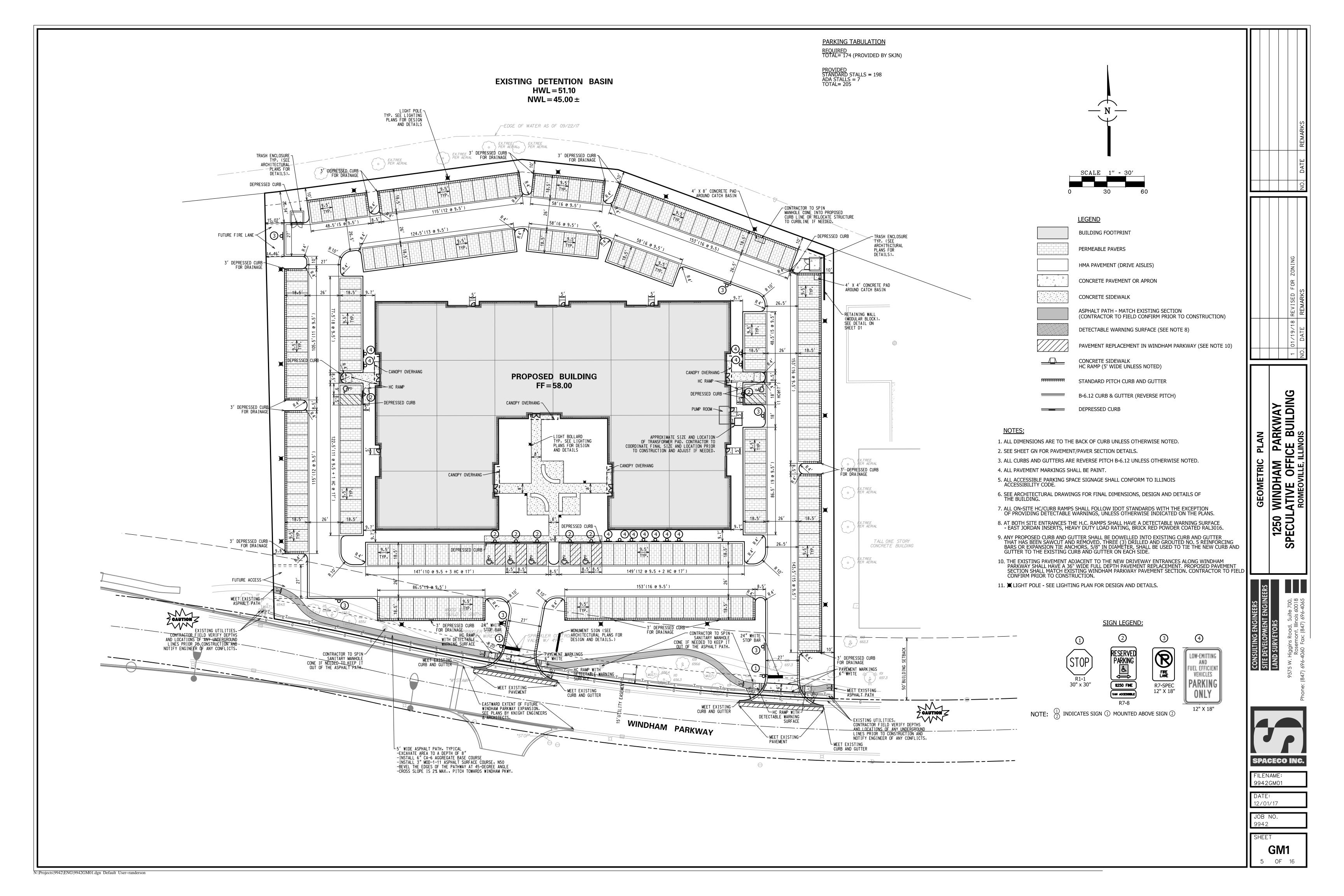
860 REMINGTON ROAD SCHAUMBURG, IL 60173

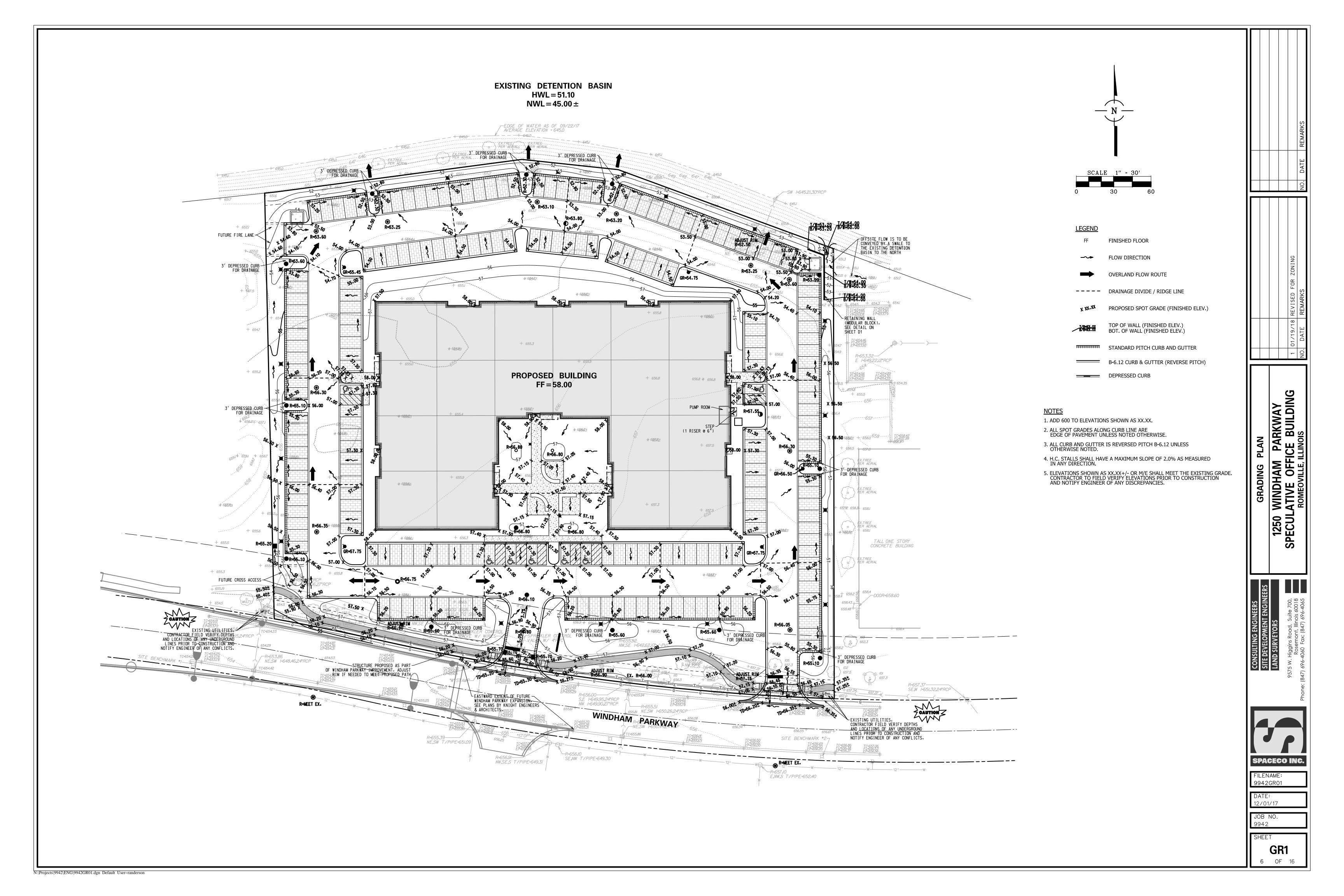
ENBRIDGE ENERGY PHONE - (219) 864-5463

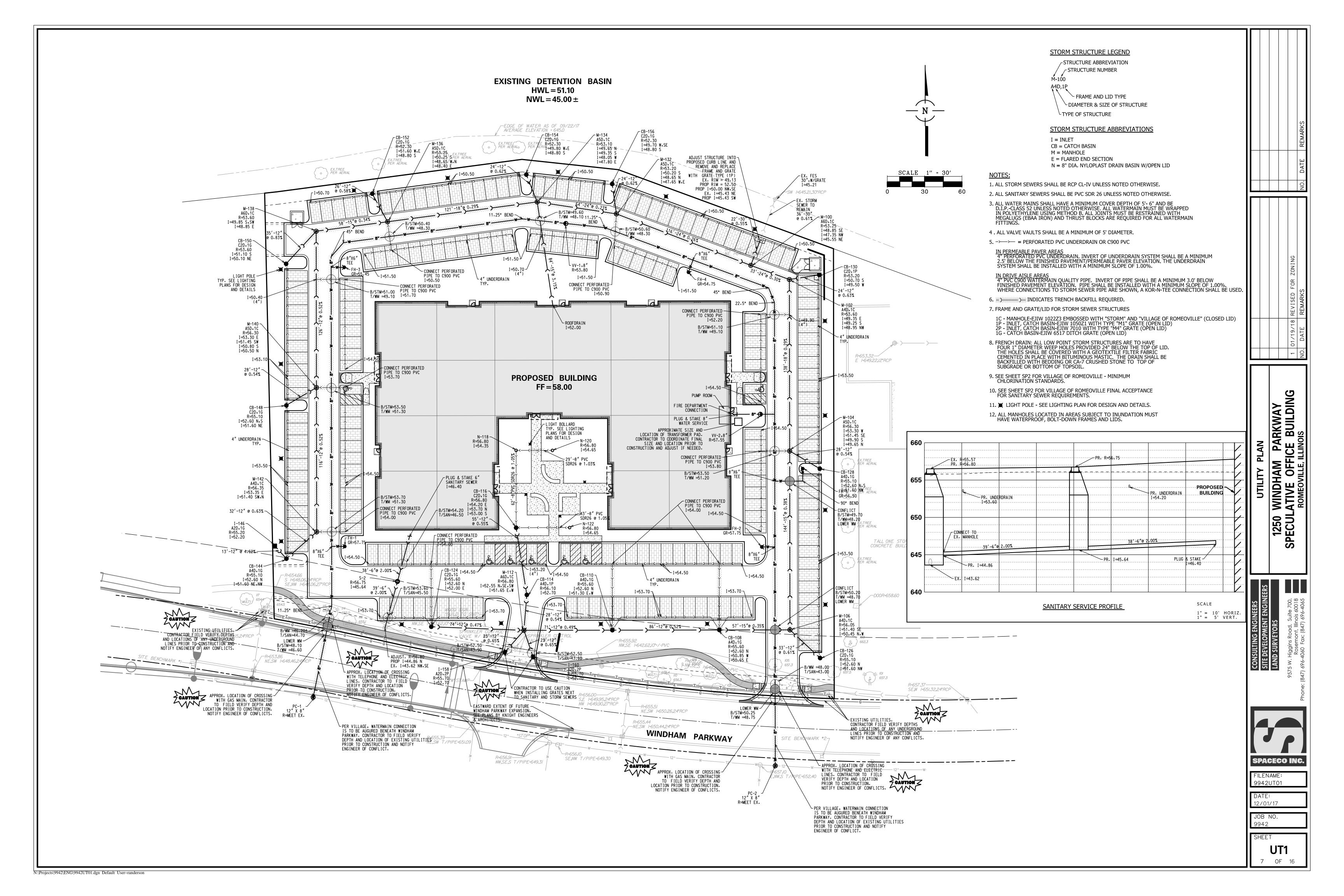
AMERICAN WATER PHONE - (630) 739-8819 CONTACT: RAY FOWLER











This Soil Erosion & Sediment Control (SESC) Plan has been prepared to fulfill one of the requirement of the National Pollutant Discharge Elimination System (NPDES) General Permit No. ILR10 SESC Plan should be maintained on site as an integral component of the Storm Water Pollution Prevention Plan (SWPPP). The SWPPP, including the SESC Plan, should be amended whenever there is a change in design, construction, operation, or maintenance, which has a significant effect on the potential for the discharge of pollutants to the Waters of the State and which has not otherwise been addressed in the SWPPP. The SWPPP Il also be amanded if it proves to be ineffective in eliminating or significantly minimizing pollutants, or in otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with construction site activity. In addition, the SWPPP shall be amended to identify any new contractor and/or subcontractor that will implement a measure of the SWPPP. 1. SITE DESCRIPTION

A. The following is a description of the nature of the construction activity: Construction of a 417,046 s.f. warehouse/office facility. The construction activities for the site improvements will include: mass grading, pavement construction, installation of utilities including storm sewers, soil erosion and sedimentation control

B. The following is a description of the intended sequence of construction activities which will disturb soils for major portions of the construction site:

Describe proposed construction sequence, sample follows:

1) Install perimeter sediment control measures

) Selective vegetation removal for silt fence installation Silt fence installation c) Construction fencing around areas not to be disturbed

d) Stabilized construction entrance) Clear and grub (as necessary)

Strip topsoil, stockpile topsoil and grade site Temporarily stabilize topsoil stockpiles (seed and silt fence around toe of slope)

Install storm sewer, sanitary sewer, watermain and associated inlet & outlet protection

) Permanently stabilize detention basins with seed and erosion control blanket

) Remove all temporary soil erosion and sediment control measures after the site is stabilized with vegetation C. The site has a total acreage of approximately 4.02 acres. Construction activity will disturb

D. 1) An estimated runoff coefficient of the site after construction activities are completed is <u>0.90.</u>
2) Existing data describing the soil or quality of any discharge from the site is included in the geotechnical report (by others).

Refer to Sheets <u>GR1 & SE3</u> for a site plan indicating:
 1) drainage patterns;

approximately 4.02 acres of the site.

4) areas of soil disturbance;

) approximate slopes anticipated before and after major grading activities; locations where vehicles enter or exit the site and controls to minimize off-site sediment tracking;

5) the location of major structural and nonstructural controls; 6) the location of areas where stabilization practices are expected to occur;) surface waters (including wetlands); and,

3) The extent of wetland acreage at the site is <u>0.00 acres.</u>

3) locations where storm water is discharged to a surface water.

F. 1) The name of the receiving water(s) is(are): <u>Village of Romeoville Storm Sewer</u>.

2) The name of the ultimate receiving water is: <u>Mink Creek</u>.

G. Potential sources of pollution associated with this construction activity may include:

sediment from disturbed soils - portable sanitary stations fuel tanks

- staaina areas - waste container

chemical storage areas oil or other petroleum products

solvents

detergents fertilizers

- raw materials (e.g., bagged portland cement) - construction debris landscape waste

concrete and concrete trucks

2. CONTROLS

This section of the SESC Plan addresses the various controls that should be implemented for each of the major construction activities described in the "Site Description" section. For each measure identified in the SWPPP, the contractor(s) or subcontractor(s) that will implement the measure should be identified. All contractors and subcontractors that are identified should be required to sign a copy of the certification statement from Part IV.F. of the ILR10 Permit (in accordance with Part VI.G. - Signatory Requirements, of the ILR10 Permit). All signed certification statements should be maintained in the SWPPP.

Approved State or Local Plans

The management practices, controls and other provisions contained in the SWPPP should be at least as protective as the requirements contained in the Illinois Environmental Protection Agency's (IEPA) and the United States Department of Agriculture's Natural Resource Conservation Service Illinois Urban Manual, 2002. Requirements specified in sediment and erosion control site plans or site permits or storm water management site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of a Notice of Intent (NOI) to be authorized to discharge under the ILR10 permit, incorporated by reference and are enforceable under the ILR10 permit even if they are not specifically included in a SWPPP required under the ILR10 permit. This provision does not apply to provisions of master plans, comprehensive plans, non-enforceable quidelines or technical guidance documents that are not identified in a specific plan or permit that is issued for the

The soil erosion and sediment control measures for this site should meet the requirements of the following agencies: - Village of Romeoville

B. Control Implementation Schedule

Rest Management Practices will be implemented on an as-needed basis to protect water quality. Perimeter controls of the site should be installed prior to soil disturbance (excluding soil disturbance necessary to install the controls), including demolition activities. Perimeter controls, including the silt fence, should be actively maintained until final stabilization of those portions of the site upward of the perimeter control. Stabilized construction entrance(s) and sediment traps should be installed as described in the intended sequence of construction activities. The contractor is responsible for the adequate protection (including sediment control) of existing sewers and sewer structures during construction operations. As necessary, the appropriate sediment control measure should be installed prior to land disturbing activities.

Stabilization measures should be initiated where construction activities have temporarily or permanently ceased, in accordance with Local and State requirements, as described below. Once construction activity in an area has permanently ceased, that area should be permanently stabilized. Temporary perimeter controls should be removed after final stabilization of those portions of the site upward of the perimeter control.

C. Erosion and Sediment Controls

The appropriate soil erosion and sediment controls should be implemented on site and should be modified to reflect the current phase of construction. All temporary sediment and erosion control measures should be repaired or replaced as soon as practicable to maintain NPDES compliance. Permittee or an authorized agent is responsible for inspecting all sediment and erosion control measures at a minimum of every 7 calendar days and within 24 hours of the end of a 0.5-inch (or greater) rain event, or snowfall equivalent.

Unless otherwise indicated, all vegetative and structural erosion and sediment control practices should be installed to the Standard Practice. The contractor is responsible for the installation of any additional erosion and sediment control measures necessary to minimize erosion and sedimentation as determined by the Engineer or Primary Contact.

1) Stabilization Practices – Areas that will not be paved or covered with non-erosive material should be stabilized using procedures in substantial conformance with the Illinois Urban Manual. This SESC Plan includes site-specific soil erosion and sediment control measures. Additional erosion controls should be implemented as necessary, as determined by the Engineer or Primary Contact.

The following temporary and permanent stabilization practices, at a minimum, are proposed:

– permanent seedina – erosion control blanket

Site-specific scheduling of the implementation of these practices is included in the Soil Protection Chart. A record of the dates when major grading activities occur, when construction activities cease on a portion of the site, and when stabilization measures are initiated should be included in the SWPPP.

Except as provided in paragraphs (a) and (b) below, stabilization measures shall be initiated as soon as practicable on portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity on that portion of the site has temporarily or permanently ceased.

(a) Where the initiation of stabilization measures by the 7th day after construction activity temporarily or permanently ceased is precluded by snow cover, stabilization measures shall be initiated as soon as practicable. (b) Where construction activity will resume on a portion of the site within 14 days from when activities ceased, (e.g., 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 site by the 7th day after construction activity temporarily ceased

?) Structural Practices – Provided below is a description of structural practices that should be implemented, to the degree attainable to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Structural practices should be placed on upland soils to the degree practicable. The installation of the following devices may be subject to Section 404 of the Clean Water Act:

- stabilized construction entrance - silt fence

. Storm Water Management

Provided below is a description of measures that will be installed during the construction process to control the pollutants in storm water discharges that will occur after the construction operations have been completed. The installation of these devices may be subject to Section 404 of the Clean Water Act.

1) The practices selected for implementation were determined on the basis of technical guidance contained in IEPA's Illinois Urban Manual, Federal, State, and/or Local Requirements. The storm water management

existing detention basin

measures include:

2) Velocity dissipation devices, such as rip—rap aprons at flared end sections or level spreaders, shall be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a watercourse so that the natural, physical, and biological characteristics and functions are maintained and protected (e.g., maintenance of hydrologic conditions, such as the hydroperiod and hydrodynamics present prior to the initiation of construction activities).

Solid waste materials including trash, construction debris, excess construction materials, machinery, tools and other items will be collected and disposed of off site by the contractor. The contractor is responsible to acquire the permit required for such disposal. Burning on site will not be permitted. No solid materials, including building materials, shall be discharged to Waters of the State, except as authorized by a Section 404 permit. All waste materials should be collected and stored in approved receptacles. No wastes should be placed in any location other than in the approved containers appropriate for the materials being discarded. There should be no liquid wastes deposited into dumpsters or other containers which may leak. Receptacles with deficiencies should be replaced as soon as possible and the appropriate clean-up procedure should take place, if necessary. Construction waste material is not to be buried on site. Waste disposal should comply with all Local, State, and Federal regulations.

On-site hazardous material storage should be minimized and stored in labeled, separate receptacles from non-hazardous waste. All hazardous waste should be disposed of in the manner specified by Local or State regulation or by the

F. Concrete Waste Management

manufacturer.

Concrete waste or washout should not be allowed in the street or allowed to reach a storm water drainage system or watercourse. When practicable, a sign should be posted at each location to identify the washout. To the extent practicable, concrete washout areas should be located a reasonable distance from a storm water drainage inlet or watercourse, and should be located at least 10 feet behind the curb, if the washout area is adjacent to a paved road. A stabilized entrance that meets Illinois Urban Manual standards should be installed at each washout area.

The containment facilities should be of sufficient volume to completely contain all liquid and concrete waste materials including enough capacity for anticipated levels of rainwater. The dried concrete waste material should be picked up and disposed of properly when 75% capacity is reached. Hardened concrete can be properly recycled and used again on site (as approved by the Engineer) or hauled off site to an appropriate landfill

Concrete waste management should be implemented to contain and dispose of saw-cutting slurries. Concrete cutting should not take place during or immediately after a rainfall event. Waste generated from concrete cutting should be cleaned—up and disposed into the concrete washout facility as described above.

When not in use, construction vehicles should be stored in a designated area(s) outside of the regulatory floodplain, away from any natural or created watercourse, pond, drainage-way or storm drain. Controls should be installed to minimize the potential of runoff from the storage area(s) from reaching storm drains or water courses. Vehicle maintenance (including both routine maintenance as well as on-site repairs) should be made within a designated area(s) to prevent the migration of mechanical fluids (oil, antifreeze, etc.) into watercourses, wetlands or storm drains. Drip pans or absorbent pads should be used for all vehicle and equipment maintenance activities that involve grease, oil, solvents, or other vehicle fluids. Construction ehicles should be inspected frequently to identify any leaks; leaks should be repaired immediately or the vehicle should be removed from site. Dispose of all used oil, antifreeze, solvents and other vehicle-related chemicals in accordance with United States Environmental Protection Agency (USEPA) and IEPA regulations and per Material Safety Data Sheet (MSDS) and/or manufacturer instructions. Contractors

should immediately report spills to the Primary Contact.

H. Vehicle Storage and Maintenance

Materials and/or contaminants should be stored in a manner that minimizes the potential to discharge into storm drains or watercourses. An on-site area should be designated for material delivery and storage. Al materials kept on site should be stored in their original containers with legible labels, and if possible, under a roof or other enclosure. Labels should be replaced if damaged or difficult to read. Bermed-off storage areas are an acceptable control measure to prevent contamination of storm water. MSDS should be available for referencing clean-up procedures. Any release of chemicals/contaminants should be immediately cleaned up and disposed of properly. Contractors should immediately report all spills to the Primary Contact, who should notify the appropriate appropriate appropriate. the appropriate agencies, if needed.

To reduce the risks associated with hazardous materials on site, hazardous products should be kept in original containers unless they are not re-sealable. The original labels and MSDS should be retained on site at all times. Hazardous materials and all other material on site should be stored in accordance with manufacturer or MSDS specifications. When disposing of hazardous materials, follow manufacturer or Local and State recommended methods.

The following good housekeeping practices should be followed on site during the construction

- An effort should be made to store only enough product required to do the job.

All materials stored on site should be stored in a neat, orderly manner in their appropriate

containers and adequately protected from the environment.

Products should be kept in their original containers with the original manufacturer's label

 \cdot Substances should not be mixed with one another unless recommended by the manufacturer.

· Operations should be observed as necessary to ensure proper use and disposal of materials

Whenever possible, all of a product should be used up before disposing of the container.

Manufacturer's recommendations for proper use and disposal should be followed.

J. Management of Portable Sanitary Stations To the extent practicable, portable sanitary stations should be located in an area that does not drain to any protected natural areas, Waters of the State, or storm water structures and should be anchored to the ground to prevent from tipping over. Portable sanitary stations located on impervious surfaces should be placed on top of a secondary containment device, or be surrounded by a control device (e.g., gravel-bag berm). The contractor should not create or allow unsanitary conditions. Sanitary waste should be disposed of in accordance with applicable State and/or Local regulations.

K. Spill Prevention and Clean-Up Procedures

Manufacturer's recommended methods for spill clean-up should be available and site personnel should be made aware of the procedures and the location of the information and clean-up supplies. Materials and equipment necessary for spill clean—up should be kept in the material storage area on site. Equipment and materials should include, but are not limited to, brooms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust and plastic and/or metal trash containers specifically for this purpose.

Discharges of a hazardous substance or oil caused by a spill (e.g., a spill of oil into a separate storm sewer or Waters of the State) are not authorized by the ILR10 permit. If a spill occurs, notify the Primary Contact immediately. The construction site should have the capacity to control, contain, and remove spills, if they occur. Spills should be cleaned up immediately (after discovery) in accordance with MSDS and should not be buried on site or washed into storm sewer drainage inlets, drainage-ways, or Waters of the State.

Spills in excess of Federal Reportable Quantities (as established under 40 CFR Parts 110, 117, or 302), should be reported to the National Response Center by calling (800) 424-8802. MSDS often include information on Federal Reportable Quantities for materials. Spills of toxic or hazardous materials should be reported to the appropriate State or Local government agency, as required. When cleaning up a spill, the area should be kept well ventilated and appropriat personal protective equipment should be used to minimize injury from contact with a hazardous substance.

In addition to the good housekeeping and other management practices discussed in the previous sections of these Notes, the following minimum practices should be followed to reduce the risk of spills: - On-site vehicles should be monitored for leaks and should receive regular preventative maintenance to reduce the

Petroleum products should be stored in tightly sealed and clearly labeled containers.

Contractors should follow the manufacturer's recommendations for proper use, storage, and disposal of materials. Excess materials should be disposed of according to the manufacturer's instructions or State and Local regulations, and should not be discharged to the storm sewer or waterbody.

L. De-Watering Operations

M. Off-Site Vehicle Tracking

During de-watering/pumping operations, only uncontaminated water should be allowed to discharge to protected natural areas, Waters of the State, or to a storm sewer system (in accordance with Local permits). Inlet hoses should be placed in a stabilized sump pit or floated at the surface of the water in order to limit the amount of sediment intake. Pumping operations may be discharged to a stabilized area that consists of an energy dissipating device (e.g., stone), sediment filter bag, or both. Adequate erosion controls should be used during de-watering operations as necessary. Stabilized conveyance channels should be installed to direct water to the desired location as applicable Additional control measures may be installed at the outlet area at the discretion of the Primary Contact or Engineer.

The site should have one or more stabilized construction entrances in conformance with the Plan details. Stabilized construction entrance(s) should be installed to help reduce vehicle tracking of sediments. Streets should be swept as needed to reduce excess sediment, dirt, or stone tracked from the site. Maintenance may include top dressing the stabilized entrance with additional stone and removing top layers of stone and sediment, as needed. Vehicles hauling erodible material to and from the construction site should be covered with a tarp. N. Topsoil Stockpile Management

If topsoil is to be stockpiled at the site, select a location so that it will not erode, block drainage, or interfere with work on site. Topsoil stockpiles should not be located in the 100-year floodplain or designated buffer protecting Waters of the State. During construction of the project, soil stockpiles should be stabilized or protected with sediment trapping measures. Perimeter controls, such as silt fence, should be placed around the stockpile immediately. Stabilization of the stockpile should be completed if the stockpile is to remain undisturbed for longer than thirty days.

Oust control should be implemented on site as necessary. Repetitive treatment should be applied as needed to accomplish control when temporary dust control measures are used. A water truck should be present on site (or available) for sprinkling/irrigation to limit the amount of dust leaving the site. Watering should be applied daily (or more frequently) to be effective. Caution should be used not to overwater, as that may cause

f field observations indicate that additional protection from wind erosion (in addition to, or in place of watering) is necessary, alternative dust suppressant controls should be implemented at the discretion and approval of the Engineer and/or Primary Contact.

Street cleaning should also be used as necessary to control dust. Paved areas that have soil on them from the construction site should be cleaned as needed, utilizing a street sweeper or bucket-type endloader or scraper at the direction of the Engineer and/or Primary Contact.

aintenance of the controls incorporated into this project should be performed as needed to assure their continued ffectiveness. This includes prompt and effective repair and/or replacement of deficient control measures. The following is a description of procedures that should be used to maintain, in good and effective operating condition, erosion and sediment control measures and other protective measures identified in the SESC Plan and Standard

Dust control: When temporary dust control measures are used, repetitive treatment should be applied as needed to

Sediment filter bags: Sediment filter bags should be installed on pump outlet hoses that discharge off site or to sensitive on-site areas, and should be placed in an area that allows for the bag to be removed without producing a sediment discharge. The bags should be inspected frequently and repaired or replaced as needed.

Silt fence: Silt fences should be inspected regularly for undercutting where the fence meets the ground, overtopping and tears along the length of the fence. Deficiencies should be repaired immediately. Remove accumulated sediments from the fence base when the sediment reaches one-half the fence height. During final stabilization, properly dispose of any sediment that has accumulated on the silt fence. Alternative sediment control measures should be considered

Stabilized construction entrance: The stabilized construction entrances should be maintained to prevent tracking of sediment onto public streets. Maintenance includes top dressing with additional stone and removing top layers of stone and sediment. The sediment tracked onto the public right-of-way should be removed immediately. emporary sediment traps: Temporary sediment traps should be inspected after each period of significant rainfall Remove sediment and restore the trap to its original dimensions when the sediment has accumulated to one-half the design depth of the permanent pool. Place the sediment that is removed in a designated disposal area. Check the

structure for damage from erosion or piping. After all sediment-producing areas have been permanently stabilized,

remove the structure and all unstable sediment. Grade the area to blend with the adjoining areas and stabilize

The Permittee (or their authorized representative) will be responsible for conducting site inspections in compliance with the ILR10 NPDES Permit. After each inspection, a report should be prepared by the qualified personnel who performed the inspection. The inspection report should be maintained on site

nspections should be conducted at least once every seven calendar days and within 24 hours of the end of a storm event that is 0.5 inches or greater, or equivalent snowfall.

ach inspection should include the following components:

Disturbed areas and areas used for the storage of materials that are exposed to precipitation should be inspected for evidence of, or the potential for, pollutants entering the drainage system. ne erosion and sediment control measures identified in the SWPPP should be observed to nsure that they have been installed and are operating correctly. Where discharge points are accessible. they should be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to the receiving waters. Locations where vehicles enter or exit the site should be inspected for off-site sediment tracking. All pumping operations and other potential non-storm water discharge sources should also be inspected.

Based on the results of the inspection, the description of potential pollutant sources identified, and the pollution prevention measures described in the SWPPP should be revised, as appropriate, as soon as practicable after the inspection. The modifications, if any, shall provide for timely implementation f any changes to the SWPPP within 7 calendar days following the inspection.

C. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the SWPPP, and actions taken in accordance with paragraph B, above should be made and retained as part of the SWPPP for at least three years from the date that permit coverage expires or is terminated The report shall be signed in accordance with Part VI.G. (Signatory Requirements) of the ILR10 NPDES Permit.

D. The Permittee shall notify the appropriate agency field operations section office by e-mail at: epa.swnoncomp@illinois.gov, telephone or fax within 24 hours of any incidence of noncompliance for an iolation of the storm water pollution prevention plan observed during any inspection conducted or for violation of any condition of this permit. The Permittee should complete and submit within 5 days an "Incidence of Non-Compliance" (ION) report for any violation of the SWPPP observed during an inspection conducted, including those not required by the SWPPP. Submission should be on forms provided by IEPA ind include specific information on the cause of non-compliance, actions which were taken to prevent any further causes of non-compliance, and a statement detailing any environmental impact, which may have resulted

E. All reports of non-compliance shall be signed by a responsible authority as defined in Part VI.G. (Signatory Requirements). of the ILR10 NPDES Permit.

After the initial contact has been made within the appropriate agency field operations section office,

linois Environmental Protection Agency ivision of Water Pollution Control compliance Assurance Section 21 North Grand Avenue Fast

Post Office Box 19276 Springfield, Illinois 62794-9276

NON-STORM WATER DISCHARGES

xcept for flows from fire fighting activities, possible sources of non-storm water that may be combined with storm water discharges associated with the proposed activity, are described below:

Water used to wash vehicles where detergents are not used; Water used to control dust; Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless spilled materials have been removed) and where detergents are not used;

Irrigation ditches: Uncontaminated around water; and, Foundation or footing drains where flows are not contaminated with process materials such as solvents; Landscape irrigation drainages uncontaminated air conditioning condensate.

ollution prevention measures should be implemented for non–storm water components of the discharge.

NOTE: ALL SEDIMENT TRAPS ARE DESIGNED FOR A 1 YEAR - 24 HOUR STORM EVENT.

methods in use in the area.

These soil erosion and sediment control plans were prepared by me or under my direct supervision, and complies with the Urban Soil Erosion Control and Standards in Illinois manual (latest edition) and the generally recognized

BRETT M. DUFFY, P.E.

Illinois Registration No.: **062–053198**

VILLAGE OF ROMEOVILLE SWPPP NOTES

-The Contractor shall take the necessary steps to control waste such as discarded building materials, concrete truck washout, chemicals, litter and sanitary waste at the construction site that

may cause adverse impacts to water quality. -All storm sewer frames and grates/lids shall be marked with "Dump No Waste" and "Drains to Creek". This note must also be included on all drainage structure details.

-A notice of Intent (NOI) must be submitted to the NPDES permitting authority and postmarked at least 30 days before commencement of any work on site for all construction site over one acre. Included in the NOT shall be the Storm Water Pollution Prevention Plan (SWPPP), which ncludes the appropriate BMP's to minimize the discharge of pollutants from the construction site.

-An incident of Non-Compliance (ION) must be completed and submitted to the IEPA, at any time, an erosion or sediment control device fails. -A Notice of Termination (NOT) must be completed and submitted to the IEPA when all permanent erosion control measures are in place with a 70% establishment of vegetation.

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEED ING			+ <u>A</u>			*	*		-			
DORMANT SEED ING	В		-								+ <u>B</u>	-
TEMPORARY SEEDING			+ <u>c</u>			-	D		_			
SODDING			+ ^{E**}									
MULCHING -	F											
WOLCH LIAG												

A KENTUCKY BLUEGRASS 90 LBS/ACRI MIXED WITH PERENNIAL RYEGRASS 30 LBS/ACRE.

C SPRING DATS 100 LBS/ACRE D WHEAT OR CEREAL RYE 150 LBS/ACRE.

B KENTUCKY BLUEGRASS 135 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS E SOD

45 LBS/ACRE + STRAW MULCH 2 TONS/ACRE.

F STRAW MULCH 2 TONS/ACRE.

> * IRRIGATION NEEDED DURING JUNE AND JULY. ** IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD.

> > SOIL PROTECTION CHART

CONTRACTOR CERTIFICATION I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT (ILR10) THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION. PROJECT: 1250 WINDHAM PARKWAY PERMIT #: ILR10 _____ TELEPHONE NUMBER CONTRACTOR SIGNATURE PRINTED NAME & TITLE NAME OF CONTRACTING FIRM STREET ADDRESS CITY, STATE, ZIP CODE TRADE/ RESPONSIBILITIES:

LL CONTRACTORS PERFORMING WORK ON THIS SITE ARE REQUIRED TO SIGN A CONTRACTOR CERTIFICATION STATEMENT AS ILLUSTRATED ABOVE. THE SIGNED STATEMENTS WILL BE MAINTAINED ON THE SITE WITH THE

PROJECT: 1250 WINDHAM PARKWAY	
PERMIT #: ILR10	
UNDER MY DIRECTION OR SUPERVISIO QUALIFIED PERSONNEL PROPERLY GAT ON MY INQUIRY OF THE PERSON OR P RESPONSIBLE FOR GATHERING THE IN AND BELIEF, TRUE, ACCURATE, AND	HAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED N IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT HERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY FORMATION, THE INFORMATION IS, TO THE BEST OF MY KNOWLEDGE COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES , INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR
SIGNATURE OF OWNER	 DATE

THE CERTIFICATION ILLUSTRATED ABOVE SHALL BE SIGNED BY THE OWNER LISTED ON THE NOTICE OF INTENT IN ACCORDANCE WITH PART VI.G. OF THE ILR10 NPDES PERMIT. THE SIGNED STATEMENT SHALL BE MAINTAINED ON THE SITE WITH THE SWPPP.

ARKWAY E BUILDING WINDHAN ATIVE OF SEDIN



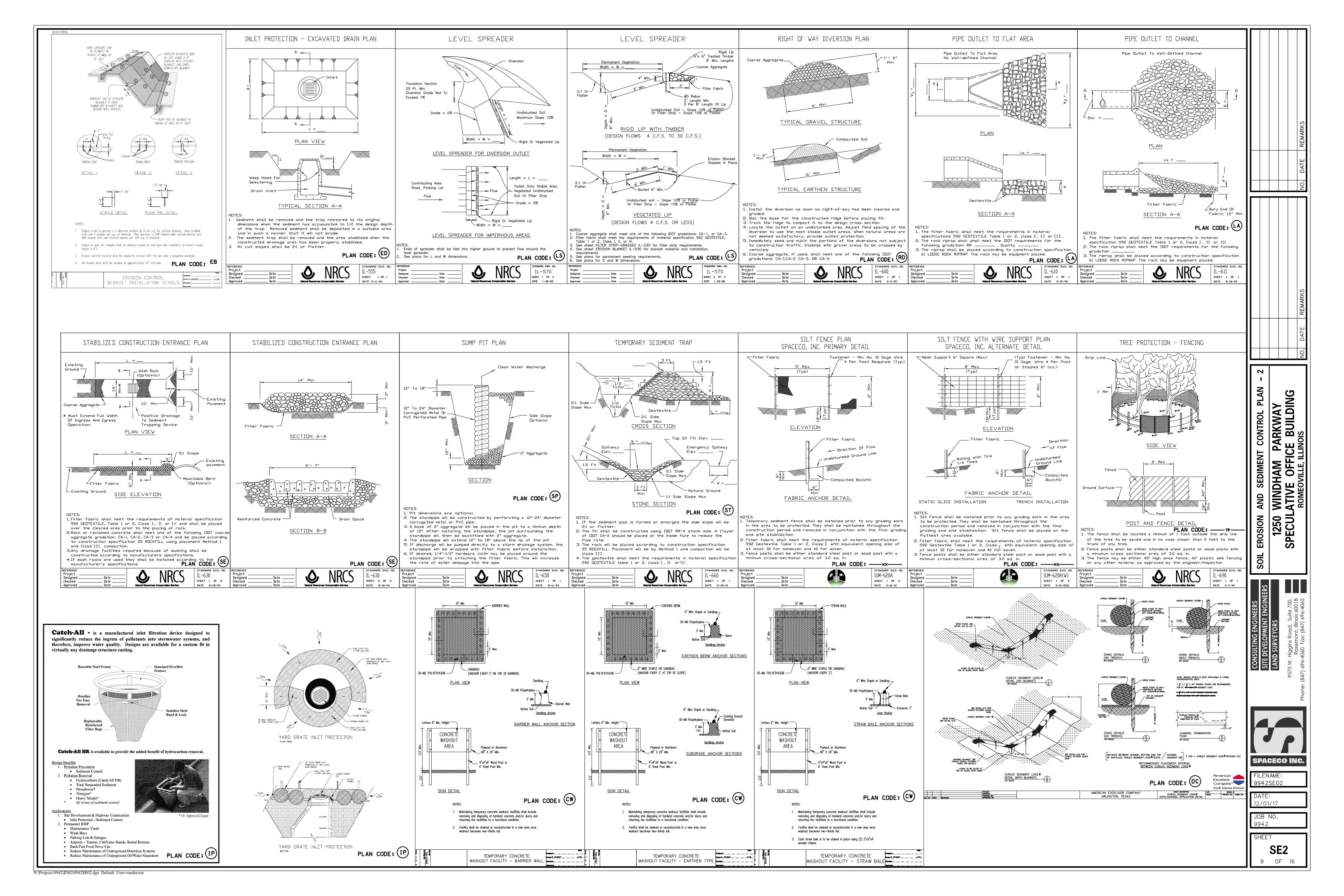
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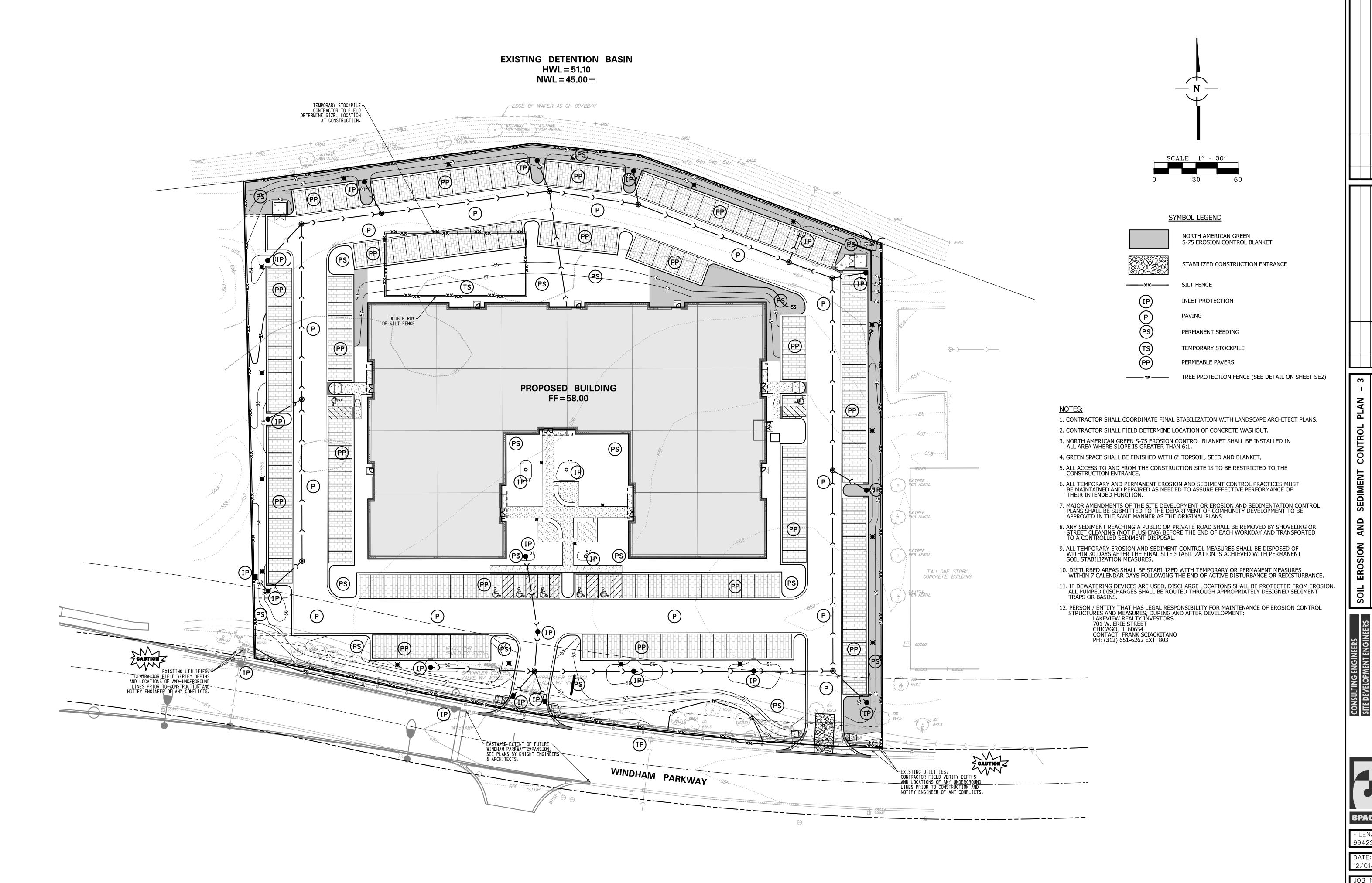
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1250 WINDHAM SPECULATIVE OFF

SPACECO INC.

FILENAME: 9942SE03

SE3 10 OF 16

EARTHWURK NUTES	
1. GENERAL A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE SOIL AND GROUNDWATER CONDITIONS AT THE SITE. THE CONTRACTOR SHALL OBTAIN AND READ THE GEOTECHNICAL REPORTS AVAILABLE FROM THE OWNER.	1. GENER
B. ANY QUANTITIES IN THE BID PROPOSAL ARE INTENDED AS A GUIDE FOR THE CONTRACTOR'S USE IN DETERMINING THE SCOPE OF THE COMPLETED PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND APPRAISE HIMSELF OF ALL SITE CONDITIONS. THE CONTRACT PRICE SUBMITTED BY THE CONTRACTOR SHALL BE CONSIDERED AS LUMP SUM FOR THE COMPLETE PROJECT. NO CLAIMS FOR EXTRA WORK WILL BE RECOGNIZED UNLESS ORDERED IN WRITING BY THE OWNER.	В.
C. THE CONTRACTOR WILL NOTE THAT THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE FINISHED GRADE ELEVATIONS AND THAT PAVEMENT THICKNESS, TOPSOIL, ETC. MUST BE SUBTRACTED TO DETERMINE SUBGRADE ELEVATIONS. D. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION, AND PREVENT STORMWATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS. THE FAILURE TO PROVIDE PROPER DRAINAGE WILL NEGATE ANY	с.
POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION AND TRAFFIC. E. PLANS FOR THE SITE DEWATERING, IF EMPLOYED, SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER PRIOR	2. SUB-
TO IMPLEMENTATION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR DEWATERING DURING CONSTRUCTION. F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE "SOIL EROSION AND SEDIMENTATION CONTROL MEASURES". THE INITIAL ESTABLISHMENT OF EROSION CONTROL PROCEDURES AND THE PLACEMENT OF SILT AND FILTER FENCING, ETC. TO PROTECT ADJACENT PROPERTY, WETLANDS, ETC. SHALL OCCUR BEFORE	
GRADING BEGINS. A MUNICIPAL EROSION CONTROL INSPECTION MAY BE REQUIRED BEFORE ANY EARTHWORK IS PERFORMED. G. PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES, THE CONTRACTOR SHALL ERECT A "SNOW FENCE" AROUND ANY TREE DESIGNATED TO BE PRESERVED. SAID FENCE SHALL BE PLACED IN A CIRCLE CENTERED AROUND THE TREE, THE DIAMETER OF WHICH SHALL BE SUCH THAT THE ENTIRE DRIP ZONE (EXTENT OF FURTHEST EXTENDING BRANCHES) SHALL BE WITHIN THE FENCE LIMITS. THE EXISTING GRADE WITHIN THE FENCED AREA SHALL NOT BE	В.
DISTURBED. H. EXCESS MATERIALS, IF NOT UTILIZED AS FILL, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.	
I. THE DEVELOPER IS REQUIRED TO HAVE A GEOTECHNICAL ENGINEER ON-SITE TO MONITOR EARTHWORK AND THE GRADING ACTIVITY, IN ORDER TO IDENTIFY UNSUITABLE SOILS FOR REMOVAL FROM THE SITE. A NOTE TO THIS EFFECT MUST BE ADDED TO THE PLANS, AND A LETTER COMMITTING TO THIS REQUIREMENT MUST BE PROVIDED BY THE DEVELOPER. IN ADDITION, DAILY REPORTS AND COPIES OF ALL GEOTECHNICAL TESTING (TESTING AND FREQUENCY IN ACCORDANCE WITH IDOT STATE SPECIFICATIONS) MUST BE SUBMITTED TO THE VILLAGE OF ROMEOVILLE ONCE THE ROADWAYS HAVE BEEN COMPLETED. THIS ENGINEER WILL BE RESPONSIBLE FOR ENSURING THAT ALL UNSUITABLE MATERIALS ARE REMOVED, ALL STRUCTURAL FILL MATERIALS ARE PROPERLY PLACED AND COMPACTED, ALL PAVEMENT SUBGRADES ARE PROPERLY PREPARED, PROOF ROLLING SUBGRADES AND BASE COURSES, AND ENSURING THAT ALL WATER RETAINING EMBANKMENTS ARE PROPERLY CONSTRUCTED. THE DEVELOPER PAYS FOR ALL GEOTECHNICAL SERVICES.	c. D.
2. TOPSOIL EXCAVATION INCLUDES: A. EXCAVATION OF TOPSOIL AND OTHER STRUCTURALLY UNSUITABLE MATERIALS WITHIN THOSE AREAS THAT WILL REQUIRE EARTH EXCAVATION OR COMPACTED EARTH FILL MATERIAL. EXISTING VEGETATION SHALL BE REMOVED PRIOR TO STRIPPING TOPSOIL OR FILLING AREAS.	3. CON
B. PLACEMENT OF THE EXCAVATED MATERIAL IN OWNER DESIGNATED AREAS FOR FUTURE USE WITHIN AREAS TO BE LANDSCAPED, AND THOSE AREAS NOT REQUIRING STRUCTURAL FILL MATERIAL. PROVIDE NECESSARY EROSION CONTROL MEASURES FOR STOCKPILE.	
C. TOPSOIL STOCKPILED FOR RESPREAD SHALL BE FREE OF CLAY AND SHALL NOT CONTAIN ANY OF THE TRANSITIONAL MATERIAL BETWEEN THE TOPSOIL AND CLAY. THE TRANSITIONAL MATERIAL SHALL BE USED IN NON-STRUCTURAL FILL AREAS OR DISPOSED OF OFF-SITE.	В.
D. TOPSOIL RESPREAD SHALL INCLUDE HAULING AND SPEADING 6" OF TOPSOIL OVER AREAS TO BE LANDSCAPED WHERE SHOWN ON THE PLANS OR DIRECTED BY THE OWNER.	
E. MODERATE COMPACTION IS REQUIRED IN NON-STRUCTURAL FILL AREAS. 3. EARTH EXCAVATION INCLUDES: A PROGRAMMENT OF CLAY AND OTHER MATERIALS WHICH ARE SHITABLE FOR HIS AS STRUCTURAL FILL. THE EXCAVATION	
A. EXCAVATION OF CLAY AND OTHER MATERIALS WHICH ARE SUITABLE FOR USE AS STRUCTURAL FILL. THE EXCAVATION SHALL BE TO WITHIN A TOLERANCE OF 0.1 FEET OF THE PLAN SUBGRADE ELEVATIONS WHILE MAINTAINING PROPER DRAINAGE. THE TOLERANCE WITHIN PAVEMENT AREAS SHALL BE SUCH THAT THE EARTH MATERIALS SHALL "BALANCE" DURING THE FINE GRADING OPERATION.	C. D.
B. PLACEMENT OF THE CLAY AND OTHER SUITABLE MATERIALS SHALL BE WITHIN THOSE AREAS REQUIRING STRUCTURAL FILL IN ORDER TO ACHIEVE THE PLAN SUBGRADE ELEVATIONS TO WITHIN A TOLERANCE OF 0.1 FEET. THE FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS THAT SHALL NOT EXCEED EIGHT (8) INCHES IN THICKNESS, AND THE WATER CONTENT SHALL BE ADJUSTED IN ORDER TO ACHIEVE REQUIRED COMPACTION.	E.
STRUCTURAL FILL MATERIAL MAY BE PLACED WITHIN THOSE PORTIONS OF THE SITE NOT REQUIRING STRUCTURAL FILL, TO WITHIN SIX (6) INCHES OF THE PLAN FINISHED GRADE ELEVATION. IN AREAS REQUIRING STRUCTURAL FILL, HOWEVER, THIS MATERIAL SHALL NOT BE PLACED OVER TOPSOIL OR OTHER UNSUITABLE MATERIALS UNLESS	F.
SPECIFICALLY DIRECTED BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER. C. COMPACTION OF THE CLAY AND OTHER SUITABLE MATERIALS, SHALL BE TO AT LEAST 93% OF THE MODIFIED PROCTOR DRY DENSITY WITHIN PROPOSED PAVEMENT AREAS, SIDEWALK, ETC. COMPACTION SHALL BE AT LEAST 95% OF THE MODIFIED PROCTOR WITHIN PROPOSED BUILDING PAD AREAS.	G.
D. EXCAVATION: QUANTITIES OF EARTH EXCAVATION INDICATED ELSEWHERE IN THIS CONTRACT HAVE BEEN COMPUTED BY THE END AREA METHOD AS PROVIDED FOR IN SECTION 202 OF THE STANDARD SPECIFICATIONS. EXCAVATED MATERIALS NOT NEEDED FOR THIS JOB SITE SHALL BE LEGALLY DISPOSED OF. PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE PER CUBIC YARD OF EARTH EXCAVATION.	н.
4. UNSUITABLE MATERIAL	4. FLE.
UNSUITABLE MATERIAL SHALL BE CONSIDERED AS MATERIAL WHICH IS NOT SUITABLE FOR THE SUPPORT OF PAVEMENT AND BUILDING CONSTRUCTION, AND IS ENCOUNTERED BELOW NORMAL TOPSOIL DEPTHS AND THE PROPOSED SUBGRADE ELEVATION. THE DECISION TO REMOVE SAID MATERIAL, AND TO WHAT EXTENT, SHALL BE MADE BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER.	
5. MISCELLANEOUS THE CONTRACTOR SHALL: A. SPREAD AND COMPACT UNIFORMLY TO THE DEGREE SPECIFIED ALL EXCESS TRENCH SPOIL AFTER COMPLETION OF	В.
THE UNDERGROUND IMPROVEMENTS. B. SCARIFY, DISC, AERATE, AND COMPACT, TO THE DEGREE SPECIFIED, THE UPPER TWELVE (12) INCHES OF THE SUITABLE SUBGRADE MATERIAL, IN ALL AREAS THAT MAY BE SOFT DUE TO EXCESS MOISTURE CONTENT. THIS	с.
APPLIES TO CUT AREAS AS WELL AS FILL AREAS. C. PROVIDE WATER TO ADD TO DRY MATERIAL IN ORDER TO ADJUST THE MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.	
D. BACKFILL THE CURB AND GUTTER AFTER ITS CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE MATERIAL. THE CURBS SHALL NOT BE BACKFILLED UNTIL THE CONCRETE HAS CURED FOR AT LEAST 7 DAYS.	D. E.
E. TRENCH COMPACTION: ALL TRENCHES SHALL BE COMPACTED BY MECHANICAL TECHNIQUES APPROVED BY THE SOILS ENGINEER UNTIL PROPER COMPACTION IS ACHIEVED. THE REQUIREMENT FOR MECHANICAL COMPACTION MAY BE WAIVED IF, IN THE OPINION OF THE SOILS ENGINEER AND THE MUNICIPAL ENGINEER, THE BACKFILLED TRENCHES MEET THE DENSITY REQUIREMENTS. JETTING OF TRENCHES FOR COMPACTION	
WILL NOT BE ALLOWED. 6. TESTING AND FINAL ACCEPTANCE	5. TEST
A. THE CONTRACTOR SHALL PROVIDE AS A MINIMUM, A FULLY LOADED SIX-WHEEL TANDEM AXLE TRUCK FOR PROOF ROLLING THE PAVEMENT SUBGRADE PRIOR TO THE PLACEMENT OF THE CURB AND GUTTER AND THE BASE MATERIAL. THIS SHALL BE WITNESSED BY MUNICIPAL ENGINEER AND THE OWNER. SEE PAVING SPECIFICATION.	В.
B. ANY UNSUITABLE AREA ENCOUNTERED AS A RESULT OF PROOF ROLLING SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL, OR OTHERWISE CORRECTED, APPROVED BY THE SOILS CONSULTANT. C. ANY TESTING THAT IS REQUIRED OF THIS CONSTRUCTION IS CONSIDERED INCIDENTAL TO THE COST OF CONSTRUCTION, NO SEPARATE PAYMENT WILL BE MADE.	C.
SIGNING AND PAVEMENT MARKING	E.
1. ALL SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC), MUNICIPAL CODE AND THESE PLANS.	
2. CONTRACTOR SHALL ESTABLISH LOCATION OF ALL SIGNS AND MARKINGS FOR APPROVAL BY THE OWNER PRIOR TO INSTALLATION.	,
3. SIGNS: SIGNS SHALL BE CONSTRUCTED OF 0.080 INCH THICK FLAT ALUMINUM PANELS WITH REFLECTORIZED LEGEND ON THE FACE IN ACCORDANCE WITH (SSRBC) SECTION 720. LEGEND SHALL BE IN ACCORDANCE WITH MUTCD AND AS SHOWN ON THE PLANS.	1. GENE
4. POSTS: SIGN POSTS SHALL BE A HEAVY DUTY STEEL "U" SHAPED CHANNEL WEIGHING 3.0 POUNDS/FOOT SUCH AS A TYPE B METAL POST PER (SSRBC) SECTION 729 [OR: 2" PERFORATED STEEL TUBE PER (SSRBC) SECTION 728]. 5. SIGNS AND POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE ABOVE (SSRBC) SECTIONS AND IDOT STANDARD 730004 EVERT AS MODIFIED BY THE BLANK.	
STANDARD 729001 EXCEPT AS MODIFIED BY THE PLANS. 6. PAVEMENT MARKINGS: ALL PAVEMENT MARKINGS IN THE ROADWAY LIMITS, SUCH AS STOP LINES, CENTERLINES, CROSSWALKS AND DIRECTIONAL ARROWS SHALL BE REFLECTORIZED THERMOPLASTIC PER (SSRBC) SECTION 780, EXCEPT AS MODIFIED BY THE PLANS. NOTE TO ENGINEER: IDOT PREFERS REFLECTORIZED PAINT ON	
EXCEPT AS MUDIFIED BY THE PLANS. [NUTE TO ENGINEER: IDOT PREFERS REFLECTORIZED PAINT ON CONCRETE PAVEMENT — CHECK WITH AGENCY WHO WILL MAINTAIN ROAD.] 7. PAVEMENT MARKINGS ON BIKE PATHS, PARKING LOT STALLS, AND SIMILAR "LOW WEAR" APPLICATION, SHALL BE PAINT IN ACCORDANCE TO (SSRBC) SECTION 780, EXCEPT AS MODIFIED BY THE PLANS. REFLECTIVE BEADS ARE	
PAINT IN ACCORDANCE TO (SSRBC) SECTION 780, EXCEPT AS MODIFIED BY THE PLANS. REFLECTIVE BEADS ARE NOT REQUIRED. 8. COLOR, WIDTH, STYLE, AND SIZE OF ALL MARKINGS SHALL BE IN ACCORDANCE WITH (MUTCD) EXCEPT AS MODIFIED BY THE PLANS.	
9. THERMOPLASTIC MARKINGS SHALL BE INSTALLED WHEN THE PAVEMENT TEMPERATURE IS 55° F AND RISING. PAINT MARKINGS MAY BE INSTALLED WHEN THE AIR TEMPERATURE IS 50° F AND RISING.	В.
	C.

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EARTHWORK NOTES

PAVING NOTES 2. BEDDING/BACKFILL: PAVING WORK INCLUDES FINAL SUBGRADE SHAPING, PREPARATION AND COMPACTION; PLACEMENT OF SUB-BASE OR BASE COURSE MATERIALS; BITUMINOUS BINDER AND/OR SURFACE COURSES; FORMING, FINISHING AND CURING CONCRETE PAVEMENT, CURBS AND WALKS; AND FINAL CLEAN-UP AND ALL RELATED WORK. COMPACTION REQUIREMENTS: [REFERENCE ASTM D-1557 (MODIFIED PROCTOR)] SUB-GRADE = 93%; SUB-BASE = 93%; AGGREGATE BASE COURSE = 95%; BITUMINOUS COURSES = REFER TO SSRBC ARTICLE 406.07. THE SOILS ENGINEER IS RESPONSIBLE FOR ENSURING THAT MATERIALS ARE PROPERLY PLACED AND COMPACTED. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE PROPER BARRICADING, WARNING DEVICES AND THE SAFE MANAGEMENT OF TRAFFIC WITHIN THE AREA OF CONSTRUCTION. ALL SUCH DEVICES AND THEIR INSTALLATION SHALL CONFORM TO THE ILLINOIS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION AND IN ACCORDANCE WITH THE MUNICIPAL CODE. SUB-GRADE PREPARATION EARTHWORK FOR PROPOSED PAVEMENT SUBGRADE SHALL BE FINISHED TO WITHIN 0.1 FOOT, PLUS OR MINUS, OF PLAN ELEVATION. THE CONTRACTOR SHALL SATISFY HIMSELF THAT THE SUBGRADE HAS BEEN PROPERLY PREPARED AND THAT THE FINISH TOP SUBGRADE ELEVATION HAS BEEN GRADED WITHIN TOLERANCES ALLOWED IN THESE SPECIFICATIONS. UNLESS THE CONTRACTOR ADVISES THE OWNER AND ENGINEER IN WRITING PRIOR TO FINE GRADING FOR BASE COURSE CONSTRUCTION, IT IS UNDERSTOOD THAT HE HAS APPROVED AND ACCEPTS THE PRIOR TO THE PLACEMENT OF THE BASE COURSE, THE SUBGRADE MUST BE PROOF ROLLED AND INSPECTED FOR UNSUITABLE MATERIALS AND/OR EXCESSIVE MOVEMENT. THE SOILS ENGINEER SHALL CONDUCT AND THE VILLAGE SHALL WITNESS ALL PROOF ROLLS. IF UNSUITABLE SUBGRADE IS ENCOUNTERED, IT SHALL BE CORRECTED IN A MANNER APPROVED BY THE OWNER OR HIS REPRESENTATIVE. THIS MAY INCLUDE ONE OR MORE OF THE FOLLOWING METHODS: SCARIFY DISC AND AERATE. REMOVE AND REPLACE WITH STRUCTURAL CLAY FILL. REMOVE AND REPLACE WITH GRANULAR MATERIAL. MAXIMUM DEFLECTION ALLOWED IN ISOLATED AREAS MAY BE 1/4" TO 1/2" IF NO DEFLECTION OCCURS OVER THE PRIOR TO THE CONSTRUCTION OF THE CURB AND GUTTER AND THE PLACEMENT OF THE BASE MATERIAL, THE PAVEMENT AREA SHALL BE FINE GRADED TO WITHIN 0.04 FEET (1/2") OF FINAL SUBGRADE ELEVATION, TO A POINT TWO (2) FEET BEYOND THE BACK OF CURB, SO AS TO INSURE THE PROPER THICKNESS OF PAVEMENT COURSES. NO CLAIMS FOR EXCESS QUANTITY OF BASE MATERIALS DUE TO IMPROPER SUBGRADE PREPARATION WILL BE HONORED. PRIOR TO PLACEMENT OF THE BASE COURSE, ALL SUBGRADES MUST BE APPROVED BY THE MUNICIPAL ENGINEER, SOILS ENGINEER AND/OR OWNER. ONCRETE WORK ALL EXTERIOR CONCRETE SHALL BE PORTLAND CEMENT CONCRETE CLASS SI OR PV PER (SSRBC) SECTION 1020.04 WITH AIR ENTRAINMENT OF NOT LESS THAN FIVE (5%) OR MORE THAN EIGHT (8%) PERCENT. CONCRETE SHALL BE WITH AIR ENTRAINMENT OF NOT LESS THAN FIVE (5%) OR MORE THAN EIGHT (6%) PERCENT. CONCRETE SHALL BE A MINIMUM OF SIX (6) BAG MIX AND SHALL DEVELOP A MINIMUM OF 3,500 PSI COMPRESSIVE STRENGTH AT FOURTEEN (14) DAYS. ALL CONCRETE SHALL BE BROOM FINISHED PERPENDICULAR TO THE DIRECTION OF TRAVEL. THE ADDITION OF CALCIUM CHLORIDE AND THE SUBSTITUTION OF FLY ASH FOR PORTLAND CEMENT IS PROHIBITED. 1.50 Ibs OF COLLATED, FILLIBRATED, POLYPROPYLENE OLEFIN FIBERS 0.50 TO 0.75 INCHES IN LENGTH SHALL BE ADDED TO EACH CUBIC YARD OF CONCRETE USED FOR SIDEWALKS. THE FIBERS SHALL BE AS MANUFACTURED UNDER THE NAME "FIBERMESH" OR EQUAL. CONCRETE CURB AND/OR COMBINATION CURB AND GUTTER SHALL BE OF THE TYPE SHOWN ON THE PLANS. THE CONTRACTOR IS CAUTIONED TO REFER TO THE CONSTRUCTION STANDARDS AND THE PAVEMENT CROSS-SECTION TO DETERMINE THE GUTTER FLAG THICKNESS AND THE AGGREGATE BASE COURSE THICKNESS BENEATH THE CURB AND GUTTER. PREMOLDED FIBER EXPANSION JOINTS, WITH TWO 3/4" X 18" EPOXY COATED STEEL DOWEL BARS, SHALL BE INSTALLED AT SIXTY (60) FOOT INTERVALS AND AT ALL PC'S, PT'S AND CURB RETURNS. ALTERNATE ENDS OF THE DOWEL BARS SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES. SAWED OR FORMED CONTRACTION JOINTS SHALL BE PROVIDED AT NO GREATER THAN FIFTEEN (15) FOOT INTERVALS BETWEEN EXPANSION JOINTS. NO HONEY-COMBING OF THE CURB AND GUTTER WILL BE ACCEPTED. CURBS SHALL BE DEPRESSED AT LOCATIONS WHERE PUBLIC WALKS/PEDESTRIAN PATHS INTERSECT CURB LINES, AND OTHER LOCATIONS AS DIRECTED, FOR THE PURPOSE OF PROVIDING ACCESSIBILITY. (SEE CONSTRUCTION STANDARDS FOR DETAIL). BARRIER CURB SHALL ALSO BE DEPRESSED AT DRIVEWAY LOCATIONS. THE CURBS SHALL BE BACKFILLED AFTER THEIR CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE. THE CONCRETE MUST CURE FOR AT LEAST SEVEN DAYS BEFORE THE CURBS ARE BACKFILLED. CONCRETE SIDEWALK SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. PROVIDE SCORED JOINTS AT 5 FOOT INTERVALS AND 1/2 "PREMOLDED FIBER EXPANSION JOINTS AT 50 FOOT INTERVALS, AND ADJACENT TO CONCRETE CURBS, DRIVEWAYS, FOUNDATIONS, ETC. CONCRETE DRIVEWAY APRONS SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. PROVIDE 6" X 6" NO. 6 WELDED WIRE MESH IN DRIVEWAYS. PROVIDE 1/2" PREMOLDED FIBER EXPANSION JOINT ADJACENT TO CURBS AND CONCRETE SIDEWALKS. PROVIDE SAWED OR FORMED CONTRACTION JOINT AT MID-POINT STANDARD REINFORCED CONCRETE PAVEMENT SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. SAWED OR FORMED CONTRACTION EXPANSION JOINTS SHALL BE AS SHOWN ON THE PLANS. CONCRETE CURING AND PROTECTION SHALL BE IN ACCORDANCE WITH (SSRBC) - METHOD I, II, OR III. THE COST OF AGGREGATE BASE OR SUB-BASE UNDER CONCRETE WORK SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE CONCRETE ITEM. LEXIBLE PAVEMENT THE PAVEMENT MATERIALS FOR BITUMINOUS STREETS, PARKING LOTS, DRIVEWAYS, SIDEWALKS AND PATHS SHALL BE AS DETAILED ON THE PLANS. UNLESS OTHERWISE SHOWN ON THE PLANS, THE FLEXIBLE PAVEMENTS SHALL CONSIST OF AGGREGATE BASE COURSE, TYPE B; BITUMINOUS CONCRETE BINDER COURSE; AND BITUMINOUS CONCRETE SURFACE COURSE; OF THE THICKNESS AND MATERIALS SPECIFIED ON THE PLANS. THICKNESSES SPECIFIED SHALL BE CONSIDERED TO BE THE MINIMUM COMPACTED THICKNESS. THE PAYING IS TO BE DONE IN ACCORD WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS. ALL TRAFFIC SHALL BE KEPT OFF THE COMPLETED AGGREGATE BASE UNTIL THE BINDER COURSE IS LAID. THE AGGREGATE BASE SHALL BE UNIFORMLY PRIME COATED AT A RATE OF 0.4 TO 0.5 GALLONS PER SQUARE YARD PRIOR TO PLACING THE BINDER COURSE. PRIME COAT MATERIALS SHALL BE BITUMINOUS M.C. - 30. PRIOR TO PLACEMENT OF THE SURFACE COURSE, THE BINDER COURSE SHALL BE CLEANED, AND TACK COATED IF DUSTY OR DIRTY. ALL DAMAGED AREAS IN THE BINDER, BASE OR CURB SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER PRIOR TO LAYING THE SURFACE COURSE. THE CONTRACTOR SHALL PROVIDE WHATEVER EQUIPMENT AND MANPOWER NECESSARY, INCLUDING THE USE OF POWER BROOMS IF REQUIRED BY THE OWNER, TO PREPARE THE PAVEMENT FOR APPLICATION OF THE SURFACE COURSE. THE TACK COAT SHALL BE UNIFORMLY APPLIED TO THE BINDER COURSE AT A RATE OF 0.05 TO 0.10 GALLONS PER SQUARE YARD. TACK COAT SHALL BE AS SPECIFIED IN (SSRBC) SECTION 406.02. SEAMS IN BASE, BINDER AND SURFACE COURSE SHALL BE STAGGERED A MINIMUM OF 6". FOR NEW STREETS, THE CONTRACTOR SHALL PERMIT THE BITUMINOUS CONCRETE BINDER COURSE TO WEATHER ONE (1) WINTER SEASON PRIOR TO THE INSTALLATION OF THE BITUMINOUS CONCRETE SURFACE COURSE UNLESS OTHERWISE SPECIFIED BY THE MUNICIPAL ENGINEER OR OWNER. STING AND FINAL ACCEPTANCE THE CONTRACTOR SHALL FOLLOW THE QUALITY CONTROL TESTING PROGRAM FOR CONCRETE AND PAVEMENT MATERIALS ESTABLISHED BY THE OWNER AND/OR MUNICIPALITY. TESTING SHALL BE DONE IN ACCORD WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS AND THE TESTING REQUIREMENTS OF THE MUNICIPALITY. WHEN REQUESTED BY THE OWNER, TEST RESULTS AND DOCUMENTATION FOR THE CONCRETE, BASE COURSE, BITUMINOUS CONCRETE BINDER, AND/OR SURFACE COURSE, SHALL BE SUBMITTED FOR VERIFICATION. PRIOR TO PLACEMENT OF THE BITUMINOUS CONCRETE SURFACE COURSE, THE CONTRACTOR, WHEN REQUIRED BY THE OWNER OR MUNICIPALITY, SHALL OBTAIN SPECIMENS OF THE BINDER COURSE WITH A CORE DRILL WHERE DIRECTED, FOR THE PURPOSE OF THICKNESS VERIFICATION. WHEN REQUIRED BY THE OWNER OR MUNICIPALITY, THE CONTRACTOR SHALL OBTAIN SPECIMENS OF THE FULL DEPTH BITUMINOUS CONCRETE PAVEMENT STRUCTURE WITH A CORE DRILL WHERE DIRECTED, IN ORDER TO CONFIRM THE PLAN THICKNESS. DEFICIENCIES IN THICKNESS SHALL BE ADJUSTED FOR BY THE METHOD DESCRIBED IN (SSRBC). FINAL ACCEPTANCE OF THE TOTAL PAVEMENT INSTALLATION SHALL BE SUBJECT TO THE TESTING AND CHECKING REQUIREMENTS CITED ABOVE. STORM SEWER NOTES

ENERAL:

ALL STORM SEWER PIPE SHALL BE RCP, UNLESS OTHERWISE NOTED ON THE PLANS, IN ACCORDANCE WITH THE FOLLOWING:

RCP: REINFORCED CONCRETE PIPE (ASTM C-76) WITH FLEXIBLE O-RING RUBBER GASKET JOINTS PER ASTM C361, ASTM C-443, AND ASTM C1619; TYPE 1, CLASS IV, PER SSRBC SECTION 603. ELLIPTICAL RCCP PIPE SHALL BE TYPE 1, HE-III PER SSRBC SECTION 511. PRECAST FLARED END SECTIONS MAY HAVE MASTIC JOINTS. PAYMENTS SHALL BE MADE AT THE CONTRACT UNIT PRICE PER LINEAR FOOT OF STORM SEWER COMPLETE IN PLACE. DIP: DUCTILE IRON WATERMAIN QUALITY PIPE CLASS 52 (ANSI 21.51) WITH MECHANICAL OR PUSH-ON JOINTS (ANSI 21.11). CEMENT LINING IS NOT REQUIRED.

PVC: POLYVINYL CHLORIDE SEWER PIPE, SDR 26, CONFORMING TO ASTM D-3034 WITH ASTM D-3212 PUSH-ON GASKETED JOINTS. HDPE: HIGH DENSITY POLYETHYLENE CORRUGATED PIPE WITH SMOOTH INTERIOR MEETING AASHTO M-294 SUCH AS ADS N-12 BY ADVANCED DRAINAGE SYSTEM, COLUMBUS, OH: OR HI-Q BY HANCOR, FINDLEY, OH. JOINTS SHALL BE SPLIT CORRUGATED BANDS BY THE PIPE MANUFACTURER.

UD: RIGID, PERFORATED PVC UNDERDRAIN PIPE (ASTM D-2729), SDR 35, OR SCHEDULE 40, WITH SOLVENT WELD JOINTS AND FILTER FABRIC WRAPPING OR SOCK. PERFORATED HDPE PIPE

- "BAND SEAL" OR SIMILAR COUPLINGS SHALL BE USED WHEN JOINING SEWER PIPES OF DISSIMILAR MATERIALS.
 "BAND SEAL". "FERNCO", AND "MISSION" TYPE COUPLINGS SHALL NOT BE USED ON SEWER MAINS. CHANGES IN PIPE MATERIAL SHALL BE MADE AT A STRUCTURE.
- C. ALL STORM SEWERS ARE TO BE CONSTRUCTED USING A LASER INSTRUMENT TO MAINTAIN LINE AND GRADE.
- D. ALL FOOTING DRAIN AND SUMP PUMP DISCHARGE PIPES SHALL BE CONNECTED TO THE STORM SEWER SYSTEM.
- THE CONTRACTOR SHALL MAINTAIN AT LEAST THREE (3') FEET OF COVER OVER THE TOP OF SHALLOW PIPES AT TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL MOUND OVER ANY PIPES WHICH HAVE LESS THAN THREE ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL MOUND OVER ANY PIPES WHICH (3') FEET OF COVER DURING CONSTRUCTION UNTIL THE AREA IS FINAL GRADED OR PAVED.

STORM SEWER NOTES

- ALL STORM SEWERS SHALL BE INSTALLED ON A TYPE A GRANULAR BEDDING, 1/4" TO 3/4" ALL STORM SEWERS SHALL BE INSTALLED ON A TYPE A GRANDLAR BEDDING, 174 TO 374
 IN SIZE (CA-13) WITH A MINIMUM THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE BUT NOT
 LESS THAN 4". BLOCKING OF ANY KIND FOR GRADE IS NOT PERMITTED. THE BEDDING MATERIALS SHALL BE
 COMPACTED TO 90% OF MODIFIED PROCTOR DENSITY. BEDDING SHALL EXTEND TO THE SPRINGLINE ON ALL RCP
 AND DIP PIPE. BEDDING SHALL EXTEND TO 12" OVER ANY PVC OR HDPE PIPE. COST OF BEDDING SHALL BE CONSIDERED
 INCIDENTAL TO THE COST OF PIPE. NO SEPERATE PAYMENT SHALL BE MADE FOR THIS.
- ALL TRENCHES BENEATH PROPOSED OR EXISTING UTILITIES, PAVEMENTS, ROADWAYS, SIDEWALKS, AND FOR A DISTANCE OF FIVE (5') FEET ON EITHER SIDE OF SAME, AND/OR WHERE SHOWN ON THE PLANS, SHALL BE BACKFILLED WITH SELECT GRANULAR BACKFILL (CA-7) AND THOROUGHLY MECHANICALLY COMPACTED IN 9" THICK (LOOSE MEASUREMENT) LAYERS. JETTING WITH WATER IS NOT PERMITTED. REFER TO THE TRENCH BACKFILL LIMITS DETAIL. 3. STRUCTURES:
- MANHOLE, CATCH BASIN AND INLET BOTTOMS SHALL BE PRECAST CONCRETE SECTIONAL UNITS OR MONOLITHIC CONCRETE, MANHOLES AND CATCH BASINS SHALL BE A MINIMUM 4' IN DIAMETER UNLESS OTHERWISE SPECIFIED ON THE PLANS. STRUCTURE JOINTS SHALL BE SEALED WITH O-RING OR BUTYL ROPE.
- B. A CONCRETE BENCH TO DIRECT FLOWS SHALL BE CONSTRUCTED IN THE BOTTOM OF ALL INLETS AND MANHOLES.
- C. THE FRAME, GRATE, AND/OR CLOSED LID SHALL BE CAST IRON OF THE STYLE SHOWN ON THE PLANS.
- THE FRAME AND GRATE OR CLOSED LID SHALL BE AS SPECIFIED ON UTILITY PLANS. THE MANHOLE LIDS SHALL BE MACHINE SURFACED, NON-ROCKING DESIGN. ALL CASTINGS SHALL BE EMBOSSED WITH A FISH IMAGE AND "DUMP NO WASTE-DRAINS TO WATERWAYS" MESSAGE. THE CLOSED LIDS SHALL BE EAST JORDAN 1022Z3 AND HAVE THE WORD "STORM" AND THE MUNICIPALITY NAME EMBOSSED ON THE LID. THE JOINT BETWEEN CONCRETE SECTION AND FRAME SHALL BE SEALED WITH A MASTIC COMPOUND.
- A MINIMUM OF TWO ADJUSTING RINGS (MIN 6" ADJUSTING HEIGHT) AND A MAXIMUM OF THREE RINGS (MAX 10" ADJUSTING HEIGHT). NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, THE VERY TOP RING SHOULD BE ONE (1) EJW INFRA-RISER RUBBER COMPOSITE ADJUSTMENT RISER (1" TO 3" MAX HEIGHT)
- F. STORM SEWER JOINTS MUST BE FLEXIBLE GASKET O-RINGS PER ASTM C361, ASTM C433, AND ASTM C1619

4. FRENCH DRAIN:

- ALL LOW POINT STORM STRUCTURES ARE TO HAVE FOUR 1" DIAMETER WEEP HOLES PROVIDED 24" BELOW THE TOP OF LID. THE HOLES SHALL BE COVERED WITH A GEOTEXTILE FILTER FABRIC CEMENTED IN PLACE WITH BITUMINOUS MASTIC THE DRAIN SHALL BE BACKFILLED WITH BEDDING OR CA-7 CRUSHED STONE TO TOP OF SUBGRADE OR BOTTOM OF TOPSOIL.
- A. CASTINGS FOR SEWER OR OTHER STRUCTURES SHALL BE AS SPECIFIED ON THE UTILITY PLAN. COST OF CASTINGS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE STRUCTURE, NO SEPARATE PAYMENT SHALL BE MADE FOR THIS ITEM.

- A. THE STORM SEWER SYSTEM SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL INSPECTION AND TESTING.
- A. THE STORM SEWER SYSTEM SHALL BE TELEVISED IF REQUIRED BY MUNICIPALITY.

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SANITARY SEWER NOTES SANITARY SEWER NOTES WATERMAIN NOTES GENERAL 13. FINAL TESTING OF SANITARY SEWER MANHOLES: SANITARY SEWER PIPE SHALL BE PVC (POLYVINYL CHLORIDE) PLASTIC PIPE WITH A STANDARD DIMENSION RATIO (SDR) OF 26 CONFORMING TO ASTM D-3034 WITH PUSH-ON JOINTS CONFORMING TO ASTM D-3212 AND PVC (POLYVINYL CHLORIDE) PLASTIC PIPE WITH A STANDARD DIMENSION RATIO (SDR) OF 21 CONFORMING TO ASTM D-2241 WITH PUSH-ON JOINTS PIPE MATERIALS: VACUUM TESTING SHALL BE CARRIED OUT IMMEDIATELY AFTER ASSEMBLY AND PRIOR TO BACKFILLING OF MANHOLES THAT ARE UP TO SEVENTY-TWO (72) INCHES IN DIAMETER. ALL LIFT HOLES SHALL BE PLUGGED WITH A NON-SHRINK GROUT, OR RUBBER PLUG. THE MANHOLE FRAME AND ADJUSTING RINGS AND CHIMNEY SEALS SHALL BE IN PLACE BEFORE TESTING. NO GROUT SHALL BE PLACED IN WATERMAINS OR SERVICES 3" OR LARGER IN DIAMETER SHALL BE CONSTRUCTED OF BITUMINOUS CONFORMING TO ASTM D-3139 AS SHOWN ON THE PLANS. PAYMENT SHALL BE MADE AT THE COATED, CEMENT LINED DUCTILE IRON PIPE, CLASS 52, CONFORMING TO ANSI A-21.50 (AWWA C150) AND ANSI A-21.51 (AWWA C151). CEMENT MORTAR LINING SHALL CONFORM TO ANSI A-21.4 (AWWA C-104). THE JOINTS SHALL BE O-RING THE HORIZONTAL JOINTS. ALL PIPES ENTERING THE MANHOLE SHALL BE PLUGGED. TAKING CARE TO SECURELY BRACE THE PLUGS FROM BEING DRAWN INTO THE MANHOLE WITH THE VACUUM TESTING. VACUUM TESTING SHALL TEST ALL MANHOLES FOR LEAKAGE. A VACUUM OF TEN (10) INCHES OF MERCURY SHALL BE PLACED ON THE MANHOLE AND THE TIME MEASURED FOR THE VACUUM TO DROP TO (9) INCNES CONTRACT UNIT PRICE PER LINEAL FOOT OF SANITARY SEWER COMPLETE IN PLACE. GASKETED PUSH-ON OR MECHANICAL JOINTS CONFORMING TO ANSI A-21.11 (AWWA C-111) SANITARY SEWER PIPE 18" AND LARGER, WHERE NOTED ON THE PLANS, OR WHERE THE IEPA MINIMUM OF MERCURY. THE VACUUM DROP SHALL NOT EXCEED THE REQUIREMENTS SHOWN IN TABLE 1 OF ASTM C 1244-02. IF TESTING FAILS, DEVELOPER SHALL SEAL ALL LEAKS AND RETEST UNTIL ACCEPTABLE. THE TESTING SHALL BE COMPLETED PRIOR TO BACKFILLING (WHENEVER POSSIBLE) SO THAT ANY LEAKS CAN BE FOUND AND FIXED EXTERNALLY, AND TO GIVE THE HORIZONTAL MANHOLE JOINTS AN SEPARATION CANNOT BE MAINTAINED, SHALL BE ONE OF THE FOLLOWING: A. ALL FITTINGS SHALL BE CAST-IRON, WITH MECHANICAL JOINTS AND "MEGALUG" RETAINER GLANDS, AND CEMENT LINED PER ANSI A21.4. COST OF FITTINGS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PIPE. DIP: DUCTILE IRON WATERMAIN QUALITY PIPE, CLASS 52, (ANSI 21.51) WITH MECHANICAL OR O-RING ALL DUCTILE IRON WATERMAIN AND FITTINGS SHALL BE WRAPPED IN 8-MIL POLYETHYLENE WRAP. ALL MECHANICAL JOINT FITTINGS SHALL USE STAINLESS STEEL NUTS AND BOLTS. PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE PER LINEAL FOOT OF WATERMAIN COMPLETE IN PLACE. 14. FLOW MONITORING PRIOR TO ACCEPTANCE: PVC: PRESSURE RATED PVC PIPE MEETING ASTM D-2241 WITH ASTM D-3139 GASKETED JOINT, SDR 26 THE DEVELOPER WILL BE REQUIRED TO MONITOR THE FLOWRATE FROM THE SITE FOR A PERIOD OF TWO MONTHS (ENCOMPASSING AT LEAST TWO MAJOR STORM EVENTS) TO IDENTIFY ANY EXCESSIVE INFLOW/INFILTRATION OCCURRING IN THE SYSTEM. THE DATA MUST BE SUBMITTED TO THE VILLAGE OF ROMEOVILLE PRIOR TO ACCEPTANCE OF THE PUBLIC IMPROVEMENTS. "BAND-SEAL" OR SIMILAR FLEXIBLE TYPE COUPLINGS SHALL BE USED WHEN CONNECTING SEWER PIPES OF DISSIMILAR MATERIALS. "BAND-SEAL", "FERNCO", AND "MISSION" TYPE COUPLINGS SHALL NOT BE USED ON ANY SEWER MAIN. MEGALUGS (EBAA IRON) RESTRAINED JOINTS SHALL BE INSTALLED ON ALL WATER MAINS AT ALL BENDS, TEES, ELBOWS, ETC. WATER SERVICES: ALL SANITARY SEWERS ARE TO BE CONSTRUCTED USING A LASER INSTRUMENT TO MAINTAIN LINE AND GRADE. WATER SERVICE PIPE, 2" IN DIAMETER OR SMALLER, SHALL BE TYPE K COPPER WATER TUBING, CONFORMING TO ASTM B-88 AND B-251, WITH COMPRESSION OR FLARED JOINTS. E. ALL FLOOR DRAINS SHALL CONNECT TO THE SANITARY SEWER. F. CONNECTIONS TO EXISTING SANITARY SEWER SYSTEM SHALL NOT BE DONE UNTIL AUTHORIZED BY THE MUNICIPALITY. A. GATE VALVES SHALL BE USED ON ALL WATERMAIN 3" AND LARGER. ALL VALVES SHALL TURN COUNTER-WATERMAINS SHALL BE SEPARATED FROM SANITARY SEWERS AND STORM SEWERS IN ACCORDANCE WITH IEPA CLOCKWISE TO OPEN. VALVES SHALL BE IRON BODY RESILIENT WEDGE GATE VALVES WITH BRONZE MOUNTED REQUIREMENTS AS SPECIFIED IN "WATER MAIN" SECTION. SEATS AND NON-RISING STEMS CONFORMING TO AWWA C-509 AND SHALL BE APPRVED BY THE MUNICIPALITY. Final Acceptance and Testing of Sanitary Sewer THE VALVES SHALL HAVE MECHANICAL JOINTS. NO WATER LINE SHALL BE PLACED IN THE SAME TRENCH AS A SEWER LINE EXCEPT UNDER SPECIAL CIRCUMSTANCES AND THEN ONLY UNDER THE FOLLOWING RULES: B. THE MECHANICAL JOINTS AND ALL FASTENERS ON THE VALVE BODY SHALL HAVE STAINLESS STEEL NUTS AND BOLTS. Before final acceptance, the sanitary sewers shall be tested in accordance with Section 31-1.11 of the "Standard Specifications for Water and Sewer Main Construction in a) PERMISSION SHALL BE OBTAINED FROM THE MUNICIPAL ENGINEERING DEPARTMENT IN WRITING PRIOR TO 5. VALVE VAULTS: Illinois". Specifically, all pipelines constructed of flexible materials shall be subject to A. VALVE VAULTS SHALL BE PRECAST CONCRETE STRUCTURES AS NOTED ON THE PLANS. THE FRAME AND COVER SHALL air exfiltration tests, televising test, and deflection test. The deflection test shall be b) THE BOTTOM OF A WATER LINE SHALL BE INSTALLED ON A SHELF A MINIMUM OF 18" ABOVE THE TOP OF THE SEWER BE EAST JORDAN #1022Z3 OR APPROVED EQUAL AND LETTERING ON THE CAST IRON FRAME AND SHALL INDICATE 1020 HD AND 18" HORIZONTALLY AWAY FROM THE EDGE OF THE SEWER. performed no sooner than thirty (30) days of the backfilling operation and shall consist of "WATER" AND "VILLAGE OF ROMEOVILLE" EMBOSSED ON THE LID. measuring the pipe for vertical ring deflection. Maximum ring deflection of the pipeline WHEN UTILITY STRUCTURE ADJUSTMENT IS NECESSARY, A MINIMUM OF TWO (2) ADJUSTING RINGS (MIN 6" ADJUSTING HEIGHT) B. ALL JOINTS NEED TO BE EXTERNALLY WRAPPED WITH MACWRAP OR EQUAL. AND MAXIMUM OF THREE (3) RINGS (MAX 10" ADJUSTING HEIGHT). NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS. TOP RING SHOULD BE RUBBER. USE ONE (1) EJIW INFRA-RISER RUBBER COMPOSITE. under load shall be limited to five (5) percent of the internal pipe diameter. All pipe C. RUBBER GASKETED BOOTS ARE REQUIRED FOR ALL PENETRATIONS THROUGH THE MANHOLE WALL. exceeding this deflection shall be considered to have reached the limit of its serviceability and shall be re-laid or replaced by the developer. Deflection testing shall be D. INTERNAL/EXTERNAL CHIMNEY SEALS ARE REQUIRED. BEDDING/BACKFILL: accomplished by pulling a mandrel, sphere, or pin-type "go / no-go" device, with a E. A MINIMUM OF TWO ADJUSTING RINGS (MIN 6" ADJUSTING HEIGHT) AND A MAXIMUM OF THREE RINGS (MAX 10" ADJUSTING diameter equal to ninety-five (95) percent of the undeflected inside diameter of the BEDDING SHALL CONSIST OF A MINIMUM OF FOUR (4") INCHES OF COMPACTED CRUSHED GRAVEL OR STONE, HEIGHT). NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, THE VERY TOP RING SHOULD BE ONE (1) EJW INFRA-RISER RUBBER COMPOSITE ADJUSTMENT RISER (1" TO 3" MAX HEIGHT) 1/4 " -3/4" IN SIZE. THE SEWER SHALL HAVE MECHANICALLY TAMPED CRUSHED GRAVEL OR STONE COVER ABOVE THE TOP OF THE PIPE TO A MINIMUM OF TWELVE (12") INCHES FOR PVC PIPE AND TO THE SPRING LINE FOR DIP. THE BEDDING AND flexible pipe, through the pipeline. In addition, all sanitary sewer having a diameter of eight (8) inches or greater shall be televised. Copies of all video tapes must be submitted COVER MATERIAL SHALL BE ASTM D-2321 CLASS II FOR PVC PIPE AND ASTM D-448 SIZE 67 FOR DIP PIPE. THE COST OF THE BEDDING AND COVER SHALL BE MERGED WITH THE UNIT PRICE BID FOR THE SEWER. 5. PRECAST CONCRETE MANHOLES: to the Village of Romeoville. A. MANHOLES MUST CONFORM TO THE LATEST REQUIREMENTS OF ASTM C478. ALL UNSUITABLE MATERIAL SHALL BE REMOVED BELOW THE PROPOSED SANITARY SEWER AND REPLACED WITH COMPACTED CA-7 CRUSHED GRAVEL OR STONE. B. NEVER TRANSPORT SECTIONS TO THE SITE UNTIL THEY HAVE CURED FOR AT LEAST TEN (10) DAYS. Final Testing of Sanitary Sewer Manholes ALL TRENCHES BENEATH PROPOSED OR EXISTING UTILITIES, PAVEMENTS, CURBS, ROADWAYS, SIDEWALKS, AND FOR A DISTANCE MARK EACH PIECE PLAINLY WITH MANHOLE NUMBERS AND DATE OF MANUFACTURE SO IT CAN BE F FIVE (5') FEET ON EITHER SIDE OF SAME, AND/OR WHERE SHOWN ON THE PLANS, SHALL BE BACKFILLED WITH SELECT INSTALLED IN THE PROPER LOCATION, AS SHOWN ON THE PLANS. Vacuum Testing shall be carried out immediately after assembly and prior to backfilling GRANULAR BACKFILL (CA-6) AND THOROUGHLY MECHANICALLY COMPACTED IN 9" THICK (LOOSE MEASUREMENT) LAYERS. JETTING WITH WATER IS NOT PERMITTED. REFER TO THE TRENCH BACKFILL LIMITS DETAIL. of manholes that are up to seventy-two (72) inches in diameter. All lift holes shall be D. MAKE SURE FACTORY- INSTALLED CUTOUTS IN THE BOTTOM SECTION ARE APPROPRIATE FOR THE PIPE plugged with a non-shrink grout, or rubber plug. The manhole frame and adjusting rings E. PIPE CONNECTIONS AT MANHOLE - CUTOUTS SHOULD BE EQUIPPED WITH RUBBER BOOTS TO ENSURE A WATERTIGHT CONNECTION. MATERIAL SHALL BE EQUAL TO KOR-N-SEAL CONNECTOR. AS MANUFACTURED MANHOLES: and chimney seals shall be in place before testing. No grout shall be placed in the horizontal joints. All pipes entering the manhole shall be plugged, taking care to securely SANITARY SEWER MANHOLES SHALL BE 4'-0" I.D. AND 5'-0" I.D. AS SPECIFIED ON UTILITY PLAN PRECAST CONCRETE SECTIONS CONFORMING TO ASTM D-478 WITH PREFORMED BITUMINOUS OR "O" RING JOINTS, IN ACCORDANCE WITH MUNICIPAL REGULATIONS, brace the plugs from being drawn into the manhole with the vacuum testing. Vacuum F. JOINT SEALANT - FLEXIBLE RUBBER SEALANT FOR JOINTS IN PRE-CAST MANHOLE SECTIONS SHALL PROVIDE AND HAVE AN ECCENTRIC CONE INSTALLED TO LINE UP WITH THE MANHOLE STEPS. ALL MANHOLE STEPS SHALL BE AT 16" O.C. testing shall test all manholes for leakage. A vacuum of ten (10) inches of mercury shall PERMANENTLY FLEXIBLE WATERTIGHT JOINTS, SHALL REMAIN WORKABLE OVER A WIDE TEMPERATURE RANGE AND SHALL NOT SHRINK, HARDEN OR OXIDIZE UPON AGING, MATERIAL SHALL BE EQUAL TO TYLOX be placed on the manhole and the time measured for the vacuum to drop to nine (9) ALL PIPE CONNECTION OPENINGS SHALL BE PRECAST WITH RESILIENT RUBBER WATER TIGHT SLEEVES. THE BOTTOM OF inches of mercury. The vacuum drop shall not exceed the requirements shown in Table 1 SUPERSEAL AND SHALL MEET ASTM C 443 AND ASTM C 361 REQUIREMENTS. MANHOLE SHALL HAVE A CONCRETE BENCH POURED TO FACILITATE SMOOTH FLOWS. THE FRAME FOR THE LID SHALL BE INSTALLED WHEN CONE SECTION IS CAST of ASTM C1244-02. If testing fails, developer shall seal all leaks and retest until acceptable. The testing shall be completed prior to backfilling (whenever possible) so ALL SANITARY MANHOLE CASTINGS, ADJUSTING RINGS AND MANHOLE SECTION SHALL BE SET IN BUTYL ROPE OR APPROVED EQUAL. H. HEAT-SHRINKABLE ENCAPSULATION FOR EXTERNAL WRAPPING OF ALL JOINTS: WRAPID SEAL AS MANUFACTURED BY EACH MANHOLE CONE AND BARREL SECTION JOINT SHALL ALSO BE EXTERNALLY SEALED WITH A 6" WIDE SEALING BAND OF RUBBER AND MASTIC. THE BAND SHALL HAVE AN OUTER LAYER OF RUBBER OR POLYETHYLENE WITH AN UNDER LAYER OF RUBBERIZED MASTIC that any leaks can be found and fixed externally, and to give the horizontal manhole CANUSA CPS, BIDCO EXTERNAL JOINT WRAP AS MANUFACTURED BY NPC, OR APPROVED EQUAL. joints an opportunity to tighten MEETING THE REQUIREMENTS OF ASTM C-877-02 (STANDARD SPECIFICATION FOR EXTERNAL SEALING BANDS FOR CONCRETE PIPE, MANHOLES, AND PRECAST BOX SECTIONS). PIPE CONNECTION TO NEW AND EXISTING MANHOLES THROUGH OPENINGS (CAST OR CORE-DRILLED) 6. FIRE HYDRANTS: PROVIDED WITH A FLEXIBLE RUBBER WATERTIGHT CONNECTOR CONFORMING TO ASTM C-923 (STANDARD SPECIFICATIONS FOR RESILIENT CONNECTIONS BETWEEN REINFORCED CONCRETE MANHOLE STRUCTURES AND PIPES). A. FIRE HYDRANTS SHALL BE EAST JORDAN WATER MASTER 5BR250 WITH 6" PLAIN-END SHOE WITH ATTACHED 6" RESILIENT WEDGE MECHANICAL JOINT VALVE, AND MUST INCLUDE STORZ PUMPER CONNECTION ALONG WITH 2-1/2" HOSE CONNECTIONS. THE ALL SANITARY MANHOLES SHALL BE PROVIDED WITH INTERNAL/EXTERNAL ADAPTOR SEAL TO SEAL THE OUTSIDE OF THE CHIMNEY Flow Monitoring prior to Acceptance VALVES MUST BE AMERICAN FLOW OR EAST JORDAN (FLOWMASTER). ALL SIZES SHALL BE RESILIENT-SEATED GATE VALVES. FROM THE MANHOLE FRAME DOWN TO THE CONE. SEE SHEET D-1 FOR MORE DETAILS. PROVIDE THE RODS FROM THE MAINLINE TEE TO THE AUXILIARY VALVE, AND BETWEEN THE AUXILIARY VALVE AND BOTH INTERNAL AND EXTERNAL CHIMNEY SEALS ARE REQUIRED FOR SANITARY MANHOLES AS WELL AS VALVE VAULTS. THE EXTERNAL CHIMNEY SEAL SHALL BE THE "I/E A" SEAL BY ADAPTOR INC. OR APPROVED EQUAL. THE INTERNAL CHIMNEY SEAL SHALL BE ENVIROLASTIC AR350 OR RAVEN 581 BRUSH GRADE. A 100% SOLIDS, FLUID APPLIED POLYURIA ELASTOMER REPAIR MATERIAL AS APPLIED The developer will be required to monitor the flowrate from the site for a period of two HYDRANT BARREL WHERE NOT BOLTED TOGETHER. months (encompassing at least two major storm events) to identify any excessive C. THE BREAK FLANGE AND ALL BELOW GRADE FITTINGS SHALL HAVE STAINLESS STEEL NUTS AND BOLTS. inflow/infiltration occurring in the system. The data must be submitted to the Village of FOR SURFACE PREPARATION, SURFACES SHOULD BE THOROUGHLY CLEAN AND DRY, CONCRETE AND MORTAR MUST BE CURED AT LEAST 7 DAYS Romeoville prior to acceptance of the public improvements. AND NO FROST OR WET CONDITIONS CAN BE PRESENT DURING INSTALLATION 7. CORPORATION STOPS: REMOVE ALL LOOSE MORTAR AND FOREIGN MATERIAL. SURFACE MUST BE FREE OF LAITANCE, CONCRETE DUST, DIRT, FORM RELEASE AGENTS, MOISTURE CURING MEMBRANES, LOOSE CEMENT AND HARDENERS. FILL BUG HOLES, AIR POCKETS AND OTHER VOIDS WITH STEEL-SEAM FT910. AFTER ENSURING THAT ALL SURFACES ARE CLEAN THE CHIMNEY SEAL COATING MATERIAL SHALL BE APPLIED EVENLY BY SPRAYING OVER THE ENTIRE CHIMNEY SEAL AREA INCLUDING THE FRAME JOINT AREA CORPORATION STOPS SHALL BE BRONZE BODY KEY STOPS CONFORMING TO AWWA C-800, AND SHALL INCLUDE "J" BEND, TAIL PIECE, AND COMPRESSION FITTINGS. SIZE AND LOCATION AS SHOWN ON PLANS. AND THE VERTICAL RISER OF THE MANHOLE CONE INCLUDING ALL EXTENSIONS TO THE CHIMNEY AREA. APPLICATION SHALL BE MADE IN B. TAPPING SADDLES SPECIFICALLY DESIGNED FOR USE WITH PVC PIPE SHALL BE IN CONJUCTION WITH THE CORPORATION STOP. ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND FILM SHALL BE APPLIED AT WET MILS SPREADING RATE OF BETWEEN 100 TO 125 MILS. THE FINA INTERNAL CHIMNEY SEAL SHALL PASS VISUAL INSPECTION AND BE COMPLETELY FREE OF PINHOLES OR VOIDS 8. SERVICE BOX: PROVIDE CURB VALVE AND CURB BOX AS INDICATED ON THE PLANS. BOX SHALL BE EXTENSION TYPE WITH FOOT PIECE AND STATIONARY RODS FOR SIX (6') FEET OF BURY. 4. FRAMES AND LIDS: B. MAXIMUM DEFLECTION AT PIPE JOINTS SHALL BE IN ACCORDANCE WITH PIPE MANUFACTURER'S CURRENT ALL SANITARY MANHOLE FRAMES AND COVERS SHALL BE EAST JORDAN 1022Z3 EMBOSSED WITH "SANITARY" AND VILLAGE OF ROMEOVILLE. ALL JOINTS NEED TO BE EXTERNALLY WRAPPED WITH MACWRAP OR EQUAL. RUBBER GASKETED BOOTS ARE REQUIRED FOR THE MAIN AT THE RECOMMENDATIONS AND AWWA SPECIFICATIONS. MANHOLE WALL. ALL MANHOLES LOCATED IN AREAS SUBJECT TO INUNDATION MUST HAVE WATERPROOF, BOLT-DOWN FRAMES AND LIDS. 9. BEDDING/BACKFILL: A MINIMUM OF TWO ADJUSTING RINGS (MIN 6" ADJUSTING HEIGHT) AND A MAXIMUM OF THREE RINGS (MAX 10" ADJUSTING HEIGHT). NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, THE VERY TOP RING SHOULD BE ONE (1) EJW INFRA-RISER RUBBER COMPOSITE ADJUSTMENT RISER (1" TO 3" MAX HEIGHT) A. ALL DUCTILE IRON WATERMAIN SHALL HAVE COARSE SAND BEDDING EXTENDED TO AT LEAST SIX INCHES (6") ABOVE THE TOP OF THE PIPE. COST OF BEDDING SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THIS PIPE. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS ITEM. B. GRANULAR BEDDING MATERIAL OR GRANULAR BACKFILL MATERIAL SHALL BE CAREFULLY PLACED TO 12" OVER THE TOP OF THE PIPE BEFORE FINAL BACKFILLING AND COMPACTION. DROP MANHOLE ASSEMBLIES: C. A MINIMUM DEPTH OF COVER OF 5'-6" SHALL BE MAINTAINED OVER THE WATER LINES. THE MAXIMUM COVER SHALL BE A. DROP MANHOLE ASSEMBLIES: DROP MANHOLE ASSEMBLIES SHALL BE PROVIDED AT THE JUNCTION OF SANITARY SEWERS WHERE THE DIFFERENCE IN INVERT GRADES EXCEEDS TWO FEET (2'), OR AS SHOWN ON THE PLANS. THE ENTIRE DROP EIGHT (8') FEET EXCEPT AT SPECIAL CROSSINGS. ASSEMBLY SHALL BE CAST IN CONCRETE MONOLITHICALLY WITH THE MANHOLE BARREL SECTION. D. CONCRETE THRUST BLOCKING SHALL BE INSTALLED ON WATERMAIN AT ALL BENDS, TEE, ELBOWS, ETC. E. ALL TRENCHES BENEATH PROPOSED OR EXISTING UTILITIES, PAVEMENTS, ROADWAYS, SIDEWALKS, AND FOR A DISTANCE 6. CLEANING: OF FIVE (5') FEET ON EITHER SIDE OF SAME, AND/OR WHERE SHOWN ON THE PLANS, SHALL BE BACKFILLED WITH SELECT GRANULAR BACKFILL (CA-7) AND THOROUGHLY MECHANICALLY COMPACTED IN 9" THICK (LOOSE MEASUREMENT) LAYERS. A. ALL MANHOLES AND PIPES SHALL BE THOROUGHLY CLEANED OF DIRT AND DEBRIS, AND ALL VISIBLE LEAKAGE JETTING WITH WATER IS NOT PERMITTED. REFER TO THE TRENCH BACKFILL LIMITS DETAIL. ELIMINATED, BEFORE FINAL INSPECTION AND ACCEPTANCE. 10. IEPA WATERMAIN PROTECTION: TESTING: A. HORIZONTAL SEPARATION DEFLECTION AND LEAKAGE TESTING WILL BE REQUIRED. THE PROCEDURE AND ALLOWABLE TESTING LIMITS a) WATERMAINS SHALL BE LAID AT LEAST TEN FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, SHALL BE AS SPECIFIED IN THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", STORM SEWER, SANITARY SEWER OR SEWER SERVICES CONNECTION. OR MUNICIPAL CODES. IN THE EVENT OF A DISCREPANCY BETWEEN THE STANDARD SPECIFICATIONS AND THE MUNICIPAL CODE, b) WATERMAINS MAY BE LAID CLOSER THAN TEN FEET TO A SEWER LINE WHEN: THE MUNICIPAL CODE SHALL GOVERN. THE FULL LENGTH OF THE SANITARY SEWER IS REQUIRED TO BE BOTH AIR TESTED AND 1) LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN FEET THE WATERMAIN INVERT IS AT LEAST 18 INCHES ABOVE THE CROWN OF THE SEWER; AND 3) THE WATERMAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED B. TESTING THE ALIGNMENT/STRAIGHTNESS SHALL BE IN ACCORDANCE WITH MUNICIPAL CODE. FARTH SHELF LOCATED TO ONE SIDE OF THE SEWER. C) BOTH THE WATERMAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED WITH PIPE EQUIVALENT TO WATERMAIN STANDARDS OF CONSTRUCTION WHEN IT IS IMPOSSIBLE TO MEET (a) OR (b) ABOVE. THE DRAIN C. TESTING OF MANHOLES TO BE IN ACCORDANCE WITH ASTM 969. OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING. B. TELEVISING: a) A WATERMAIN SHALL BE LAID SO THAT ITS INVERT IS 18 INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER ALL SANITARY SEWERS SHALL BE TELEVISED AND A COPY OF THE TAPE /DVD AND A WRITTEN REPORT SHALL BE SUBMITTED WHENEVER WATERMAINS CROSS STORM SEWERS, SANITARY SEWERS OR SEWER SERVICE CONNECTIONS AND REVIEWED BY THE OWNER OR MUNICIPALITY BEFORE FINAL ACCEPTANCE. THE REPORT SHALL INCLUDE STUB LOCATION AS WELL AS A DESCRIPTION OF ALL DEFECTS, WATER LEVEL, LEAKS AND LENGTHS. IDENTIFY MANHOLE TO MANHOLE BOTH THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATERMAIN LOCATED WITHIN VERBALLY AND ON-SCREEN USING MANHOLE NUMBERS FROM APPROVED PLANS. ORDER OF WRITTEN REPORT SHALL BE THE TEN FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATERMAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANCE FROM THE SEWER OR DRAIN. SAME AS THE VIDEO TAPES/DVDS. b) BOTH THE WATERMAINS AND SEWER SHALL BE CONSTRUCTED WITH PIPE EQUIVALENT TO WATERMAIN STANDARDS OF CONSTRUCTION WHEN: 1) IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN (a) ABOVE; OR 9. TEST RESULTS: 2) THE WATERMAIN PASSES UNDER A SEWER OR DRAIN. c) A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN IF THE SANITARY SEWER INSTALLATION FAILS TO MEET THE TEST REQUIREMENTS SPECIFIED, THE CONTRACTOR SHALL DETERMINE THE CAUSE OR CAUSES OF THE DEFECT AND SHALL, AT HIS OWN EXPENSE, REPAIR OR OF THE WATERMAIN SHALL BE MAINTAINED WHERE A WATERMAIN CROSSES UNDER SEWER. SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTLING AND BREAKING THE WATER MAIN. d) CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE NORMAL DISTANCE FORM THE REPLACE ALL MATERIALS, AND WORKMANSHIP AS MAY BE NECESSARY TO COMPLY WITH THE TEST REQUIREMENTS. WATERMAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN FEET. 10. CERTIFICATION: 11. TESTING: CONTRACTOR SHALL SUBMIT CERTIFIED COPIES OF ALL REPORTS OF TESTS CONDUCTED BY AN INDEPENDENT LABORATORY BEFORE INSTALLATION OF PVC PLASTIC PIPE. TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH STANDARD METHOD OF TEST FOR "EXTERNAL LOADING PROPERTIES OF PLASTIC PIPE BY PARALLEL PLATE LOADING". A. ALL WATERMAINS SHALL BE PRESSURE TESTED, FLUSHED AND DISINFECTED IN ACCORDANCE WITH AWWA AND MUNICIPAL SPECIFICATIONS. EACH VALVE SECTION SHALL BE PRESSURE TESTED FOR A MINIMUM OF 4 HOURS. ALLOWABLE LEAKAGE IS TO BE ONLY THAT WHICH IS PREDETERMINED BY THE STANDARD SPECIFICATIONS FOR SEWER AND WATERMAIN ASTM STANDARDS D-2412 OR D-2241 AS APPROPRIATE FOR THE PIPE TO BE USED. TESTS SHALL ALSO BE CONDUCTED CONSTRUCTION IN ILLINOIS. AT NO TIME IS THERE TO BE ANY VISIBLE LEAKAGE FROM THE MAIN. TO DEMONSTRATE JOINT PERFORMANCE AT 5% MAXIMUM DIAMETRIC DEFLECTION OF THE SPIGOT. B. CONTRACTOR IS RESPONSIBLE FOR PRESSURE TESTING AGAINST EXISTING WATER VALVES. RECORD DRAWINGS: 12. VILLAGE OF ROMEOVILLE SPECIFICATIONS: THE CONTRACTOR SHALL PROVIDE ALL INFORMATION TO PREPARE RECORD DRAWING(S) INCLUDING SERVICE STUB LOCATIONS, TO SPACECO. SPACECO SHALL PREPARE RECORD DRAWINGS AND SUBMIT TO APPROPRIATE PUBLIC AGENCIES. IF FINAL MEASUREMENTS INDICATE DEFICIENCIES, THE CONTRACTOR, AT HIS OWN COST, WILL ADJUST A. PLEASE BE CONSCIOUS OF DAMAGING THE PAINT ON THE HYDRANTS DURING INSTALLATION. THE VILLAGE OF ROMEOVILLE HAS FOUND THAT THE PAINT ON THE HYDRANTS CAN BE DAMAGED DURING BACKFILLING. IF REQUESTED BY THE VILLAG OF ROMEOVILLE WATER SUPERINTENDENT, ANY HYDRANTS EXHIBITING EXCESSIVE ROCK DAMAGE WILL BE SAND BLASTED MANHOLES AND/OR SEWERS TO PROPER ELEVATIONS AND OTHERWISE CORRECT THE DEFICIENCIES. AND REPAINTED BY AN APPROVED CONTRACTOR PRIOR TO ACCEPTANCE. B. A MINIMUM OF 48 HOURS PRIOR TO ANY WATER USAGE (I.E. FLUSHES, FILLS, ETC.), THE CONTRACTOR MUST CALL THE 12. FINAL ACCEPTANCE AND TESTING OF SANITARY SEWER: VILLAGE OF ROMEOVILLE'S WATER DEPARTMENT AT 815-886-1870 TO GET APPROVAL OF SAID USAGE. ANY UNAUTHORIZED USAGE WILL RESULT IN PENALTIES. BEFORE FINAL ACCEPTANCE, THE SANITARY SEWERS SHALL BE TESTED IN ACCORDANCE WITH SECTION 31-1.11 OF THE "STANDAR C. ALL VALVES AND HYDRANTS SHALL BE SUBMITTED TO THE VILLAGE OF ROMEOVILLE WATER DEPARTMENT FOR WRITTEN SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS". SPECIFICALLY, ALL PIPELINES CONSTRUCTED OF FLEXIBLE MATERIALS SHALL BE SUBJECT TO AIR EXFILTRATION TESTS, TELEVISING TEST, AND DEFLECTION TEST. THE DEFLECTION TEST SHALL BE APPROVAL PRIOR TO ORDERING. PERFORMED NO SOONER THAN THIRTY (30) DAYS OF THE BACKFILLING OPERATION AND SHALL CONSIST OF MEASURING THE PIPE FOR VERTICAL RING DEFLECTION. MAXIMUM RING DEFLECTION OF THE PIPELINE UNDER LOAD SHALL LIMITED TO FIVE (5) PERCENT OF THE INTERNAL PIPE DIAMETER. ALL PIPE EXCEEDING THIS DEFLECTION SHALL BE CONSIDERED TO HAVE REACHED THE LIMIT OF ITS SERVICEABILITY AND SHALL BE RE-LAID OR REPLACED BY THE DEVELOPER. DEFLECTION TESTING SHALL BE ACCOMPLISHED BY PULLING A MANDREL, SHERE, OR PIN-TYPE "GO / NO GO" DEVICE, WITH A DIAMETER EQUAL TO NINTY-FIVE (95) PERCENT OF THE UNDEFLECTED INSIDE DIAMETER OF THE FLEXIBLE PIPE, THROUGH THE PIPELINE. IN ADDITION, ALL SANITARY SEWER HAVING A DIAMETER OF EIGHT (8) INCHES OR GREATER SHALL BE TELEVISED. COPIES OF ALL VIDEO TAPES MUST SUBMITTED TO THE VILLAGE OF ROMEOVILLE.

WATERMAIN NOTES Village of Romeoville - Minimum chlorination standards: Gas chlorine must be used for disinfection. b. The chlorination contractor must call 815-886-1870 a minimum of 24-hours in advance to schedule chlorination. c. Only Village of Romeoville employees shall operate water system valves and turn on/off sampling whips while samples are being collected. d. All chlorination and safety equipment must meet or exceed the standards and recommendations set by The Chlorine Institute, Inc. e. The chlorinator must be a licensed plumber or certified Illinois water operator with a minimum of 5 years experience working with chlorine disinfection of water f. The chlorination contractor must have two people present to chlorinate. One to monitor the cylinder and one to monitor in the field. g. The chlorination contractor must be bonded and insured, and have proof of both on file with the Village. h. The chlorination contractor must have updated 24-hour emergency phone numbers on file with the Village. i. The chlorination contractor must comply with state and federal regulations regarding transportation and handling of chlorine cylinders: Shipping and emergency papers for every job location Proof of insurance for hauling and handling chlorine gas Commercial driver's license with Hazmat endorsement and medical card Copy of Emergency Response Guidebook in vehicle Hazmat certificate of registration Hazardous materials placard displayed on vehicle Cylinder strapped upright in truck j. Under no circumstances will chlorine contractors be allowed to apply heat to the chlorine cylinder (i.e. hot baths, propane torches, etc.). While the cylinder is being used it must be in a vertical position, as well as being affixed to a solid object. k. Prior to chlorination, the chlorination contractor must provide a detailed written chlorination and flushing plan to the Village for review and written approval. 1. At any time, the Village or its authorized representative may ask for proof of any or all of the above information. Please contact the Village of Romeoville Public Works Department (815-886-1870) with any questions.

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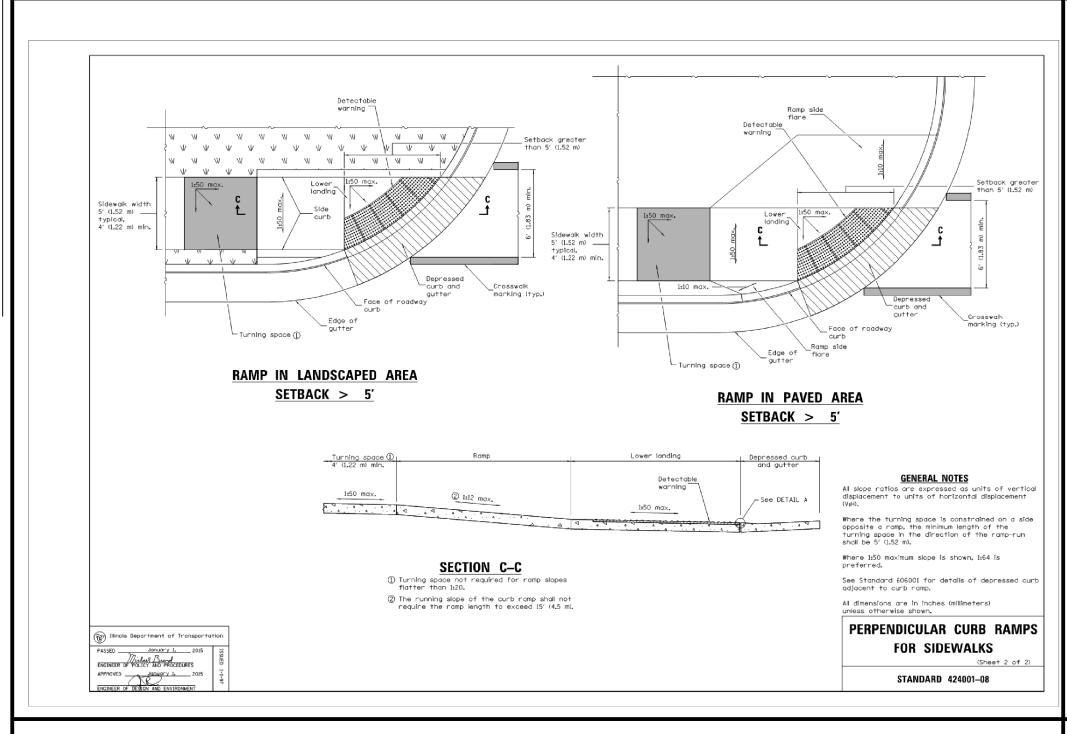
SPACECO INC

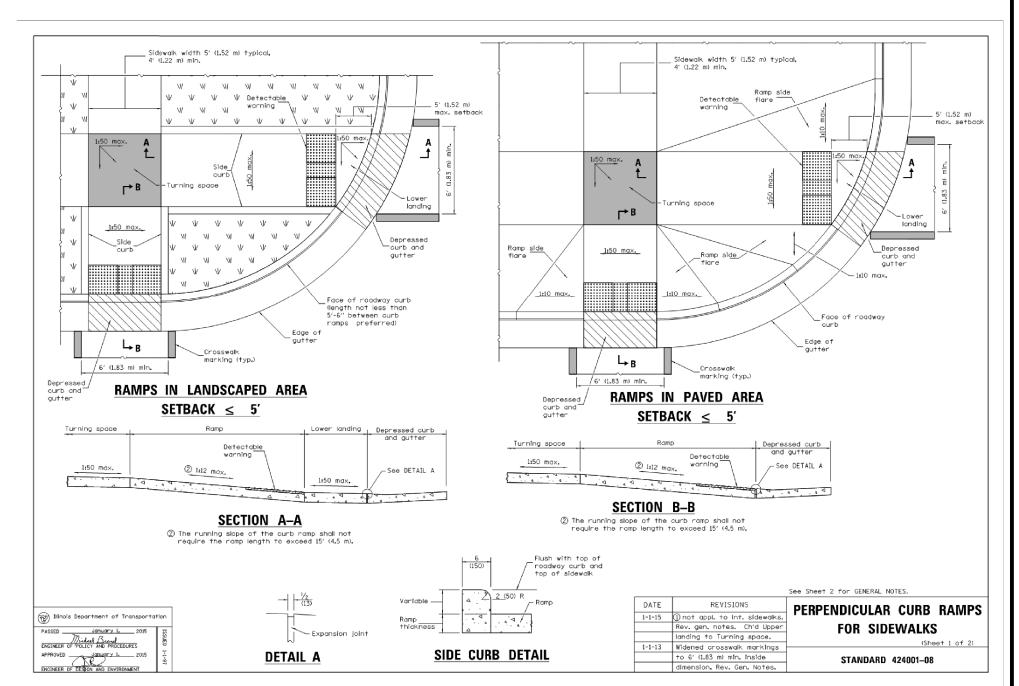
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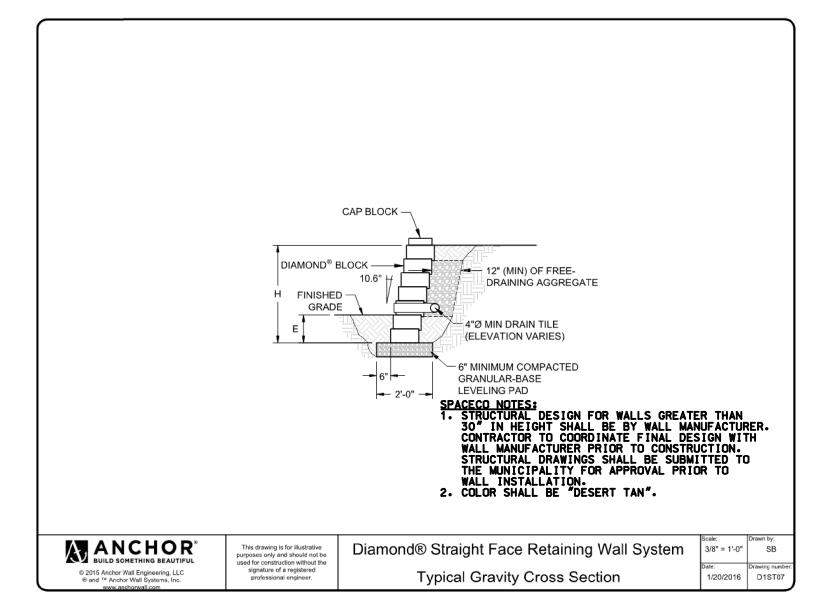
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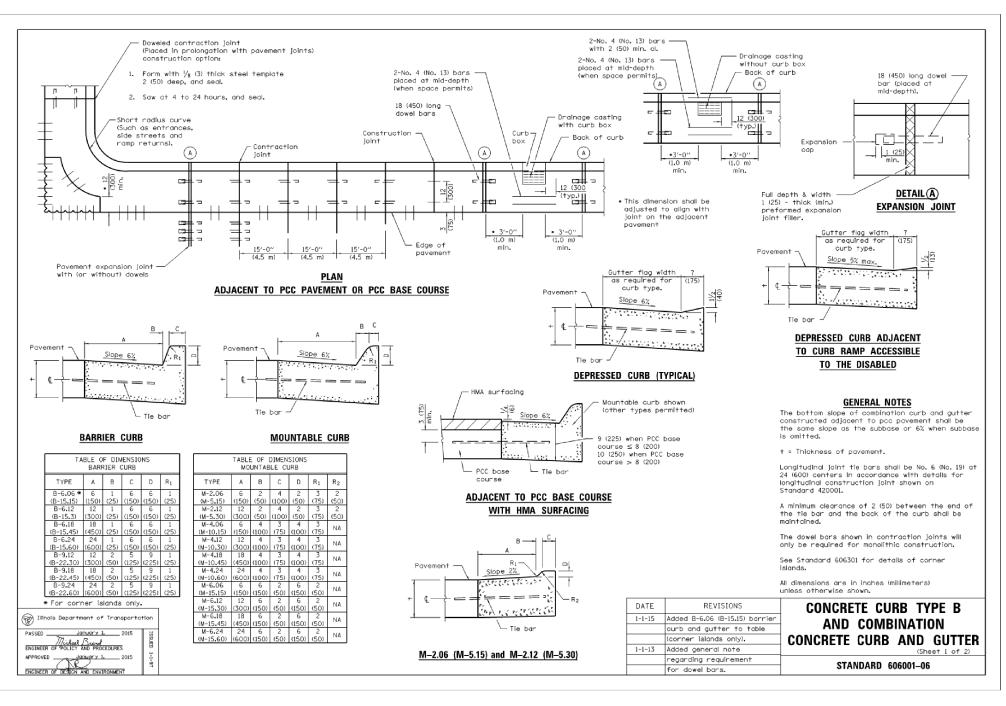
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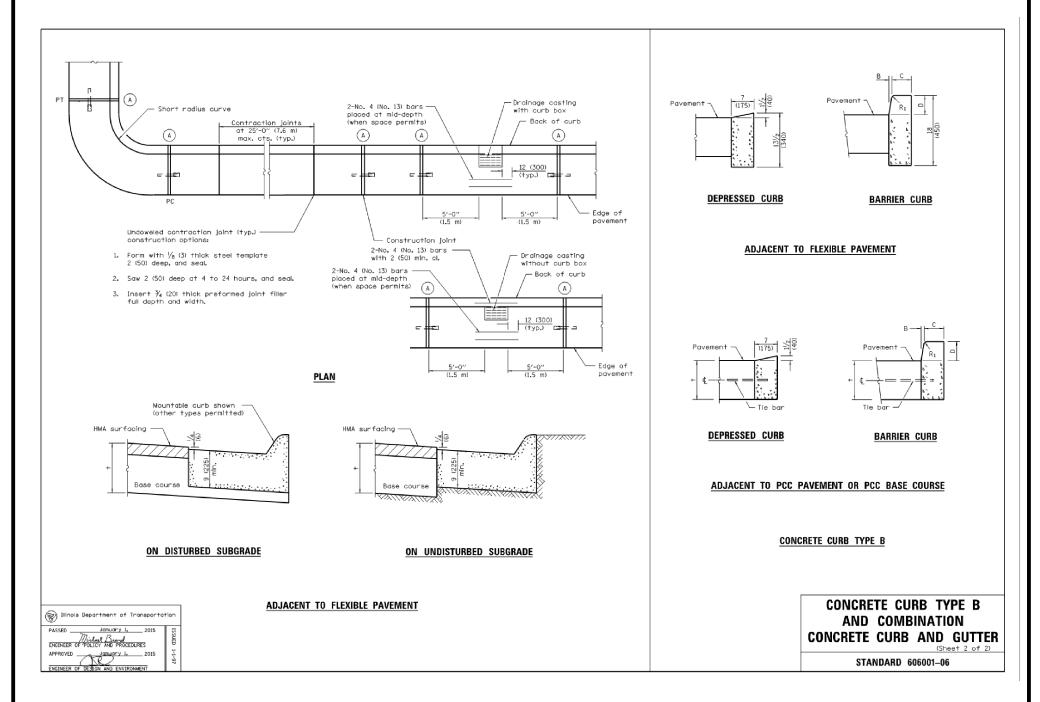
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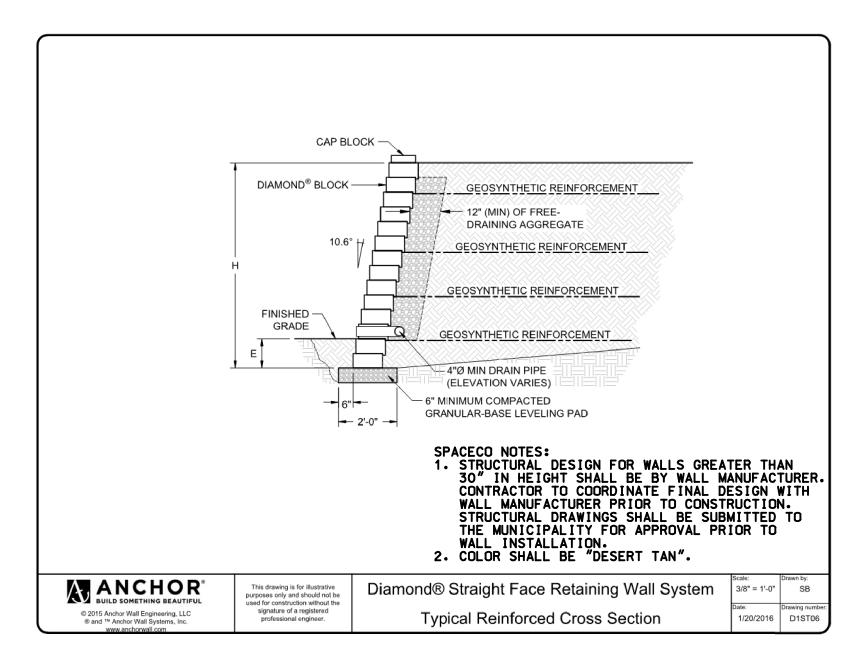


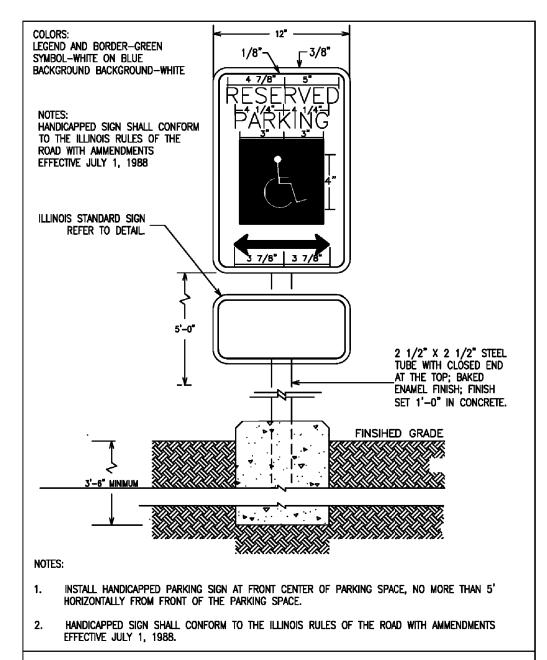




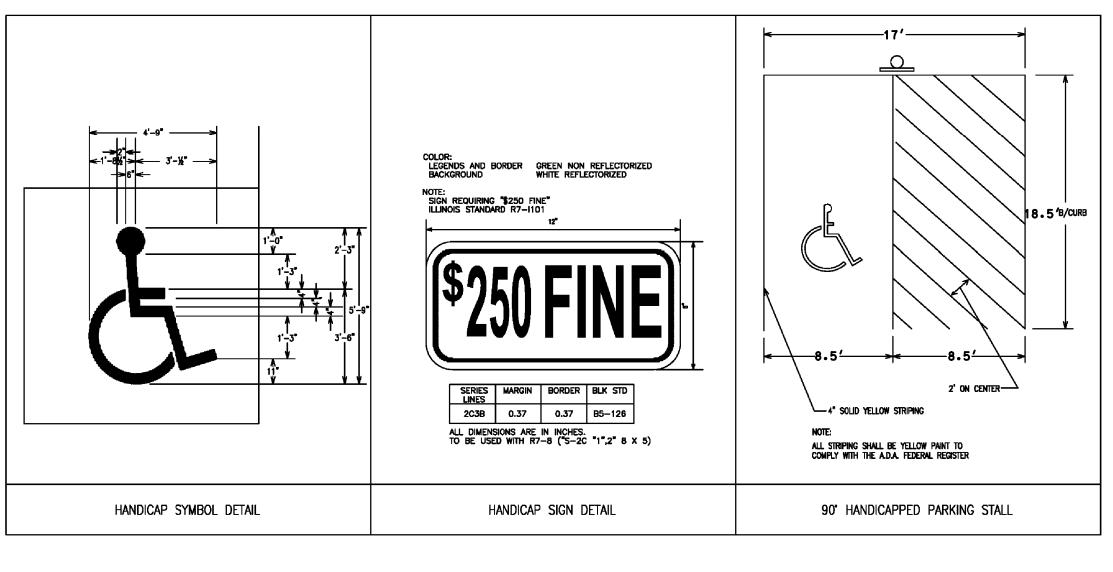


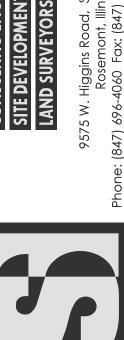






HANDICAP SIGN DETAIL





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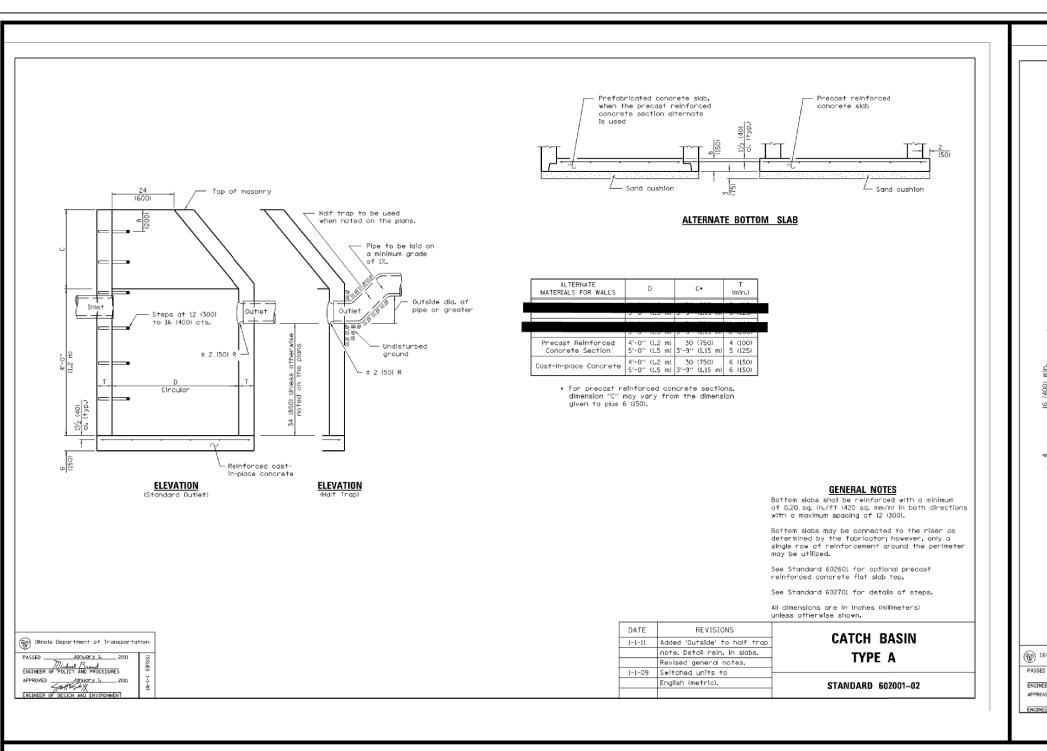
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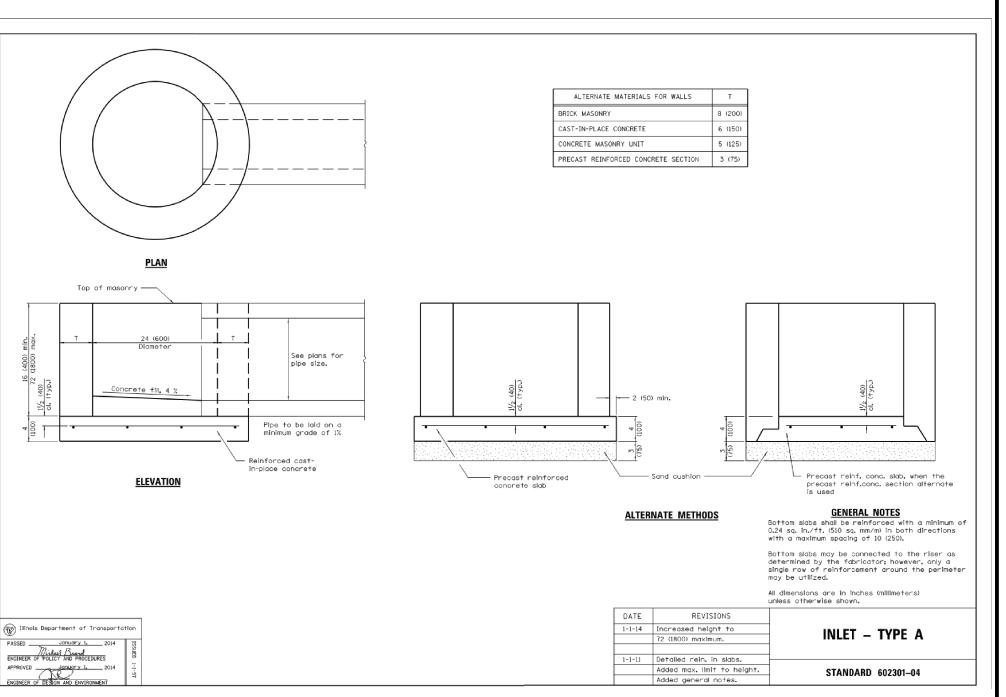
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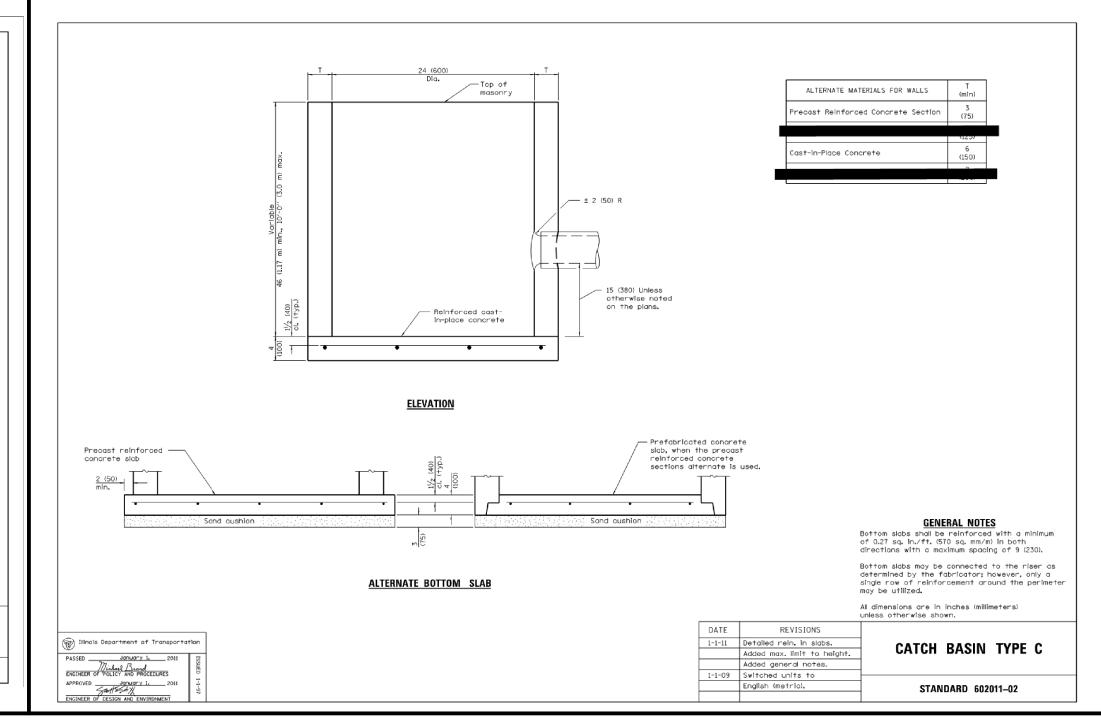
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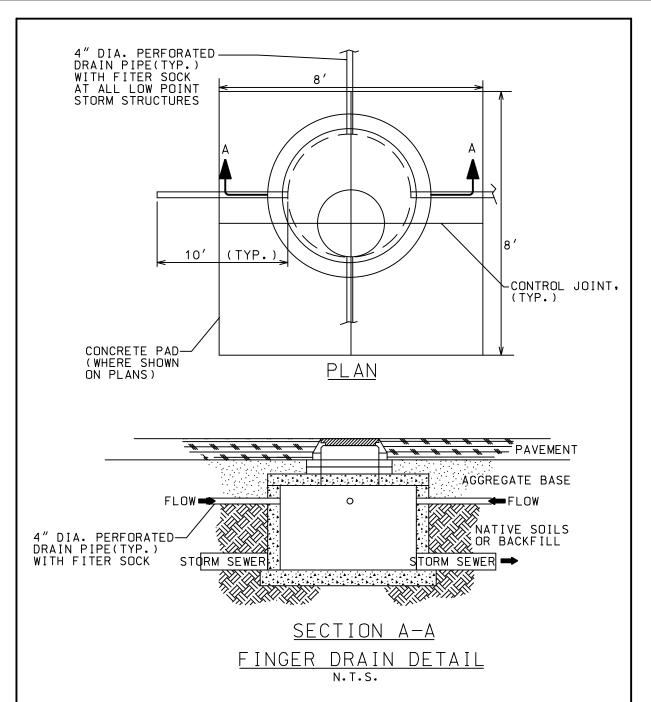
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D113 OF 16









1 GRANULAR TRENCH BACKFILL SHALL BE PROVIDED WITHIN TWO (2) FEET OF EXISTING OR PROPOSED PAVEMENT, CURB & GUTTER, AND SIDEWALK, TRENCH BACKFILL SHALL BE CA-6. MACHINE BACKFILL OF EXCAVATED MATERIAL IN OTHER LOCATIONS.

- 2 GRANULAR BEDDING MATERIAL SHALL BE CA-11 OR CA-13 FOR SANITARY SEWER AND STORM SEWER AND IDOT CA-6, CRUSHED STONE 3/4" TO 1/4" IN SIZE (NO.67 ASTM D-448) FOR WATERMAIN TAMPED INTO PLACE AS SHOWN.

 FLEXIBLE PIPE: BEDDING, HAUNCHING, AND INITIAL BACKFILL TO BE CA-11 OR CA-13.

 RIGID PIPE: BEDDING AND HAUNCHING TO BE CA-11 OR CA-13 FOR SEWERS AND

 CA-6 FOR WATERMAIN
- 3 UNSUITABLE MATERIAL TO BE REMOVED AND REPLACED (WHERE DIRECTED) WITH GRANULAR MATERIAL AND PAID FOR SEPARATELY.
- 4 PIPE DIAMETER 8" AND LESS ----TRENCH WIDTH = 18" PIPE DIAMETER 8" AND LARGER---TRENCH WIDTH = (1.5 X PIPE DIA.) + 8"

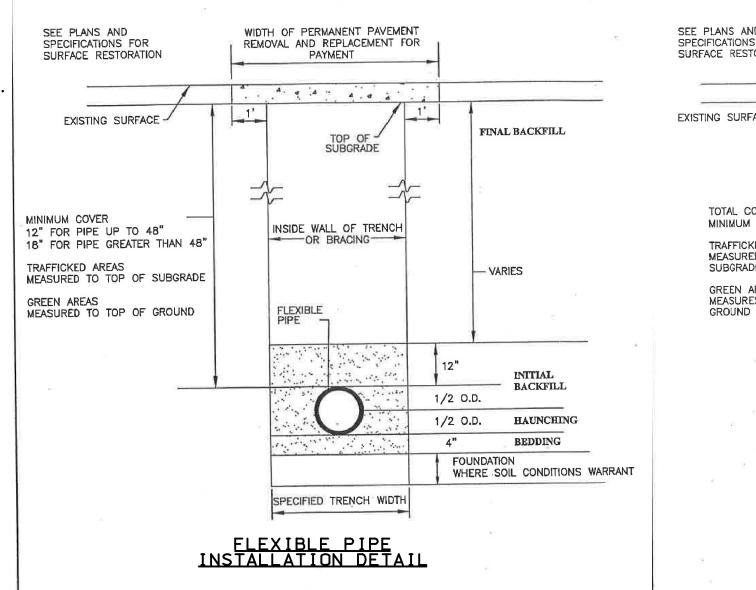
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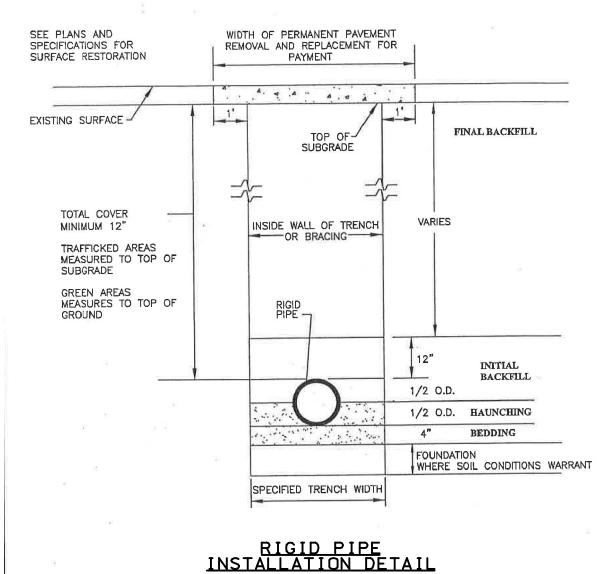
- 1. THE COST OF ALL GRANULAR BEDDING (ITEM 2) TO BE MERGED WITH THE PIPE. 2. THE COST OF ALL GRANULAR TRENCH BACKFILL (ITEM 1) TO BE PAID PER LINEAR FOOT UNLESS OTHERWISE NOTED IN SPECIAL PROVISIONS.
- 3. TRENCH DETAILS SHOWN ARE PER STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS

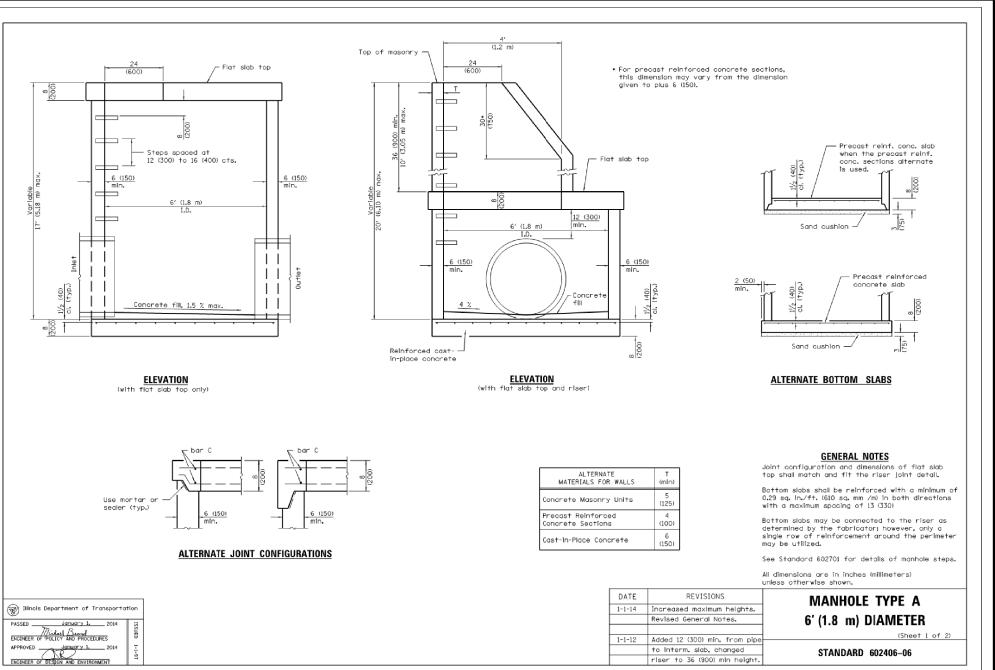
WIDTH OF PERMANENT PAVEMENT SEE PLANS AND REMOVAL AND REPLACEMENT FOR PAYMENT A. a . A . a . a

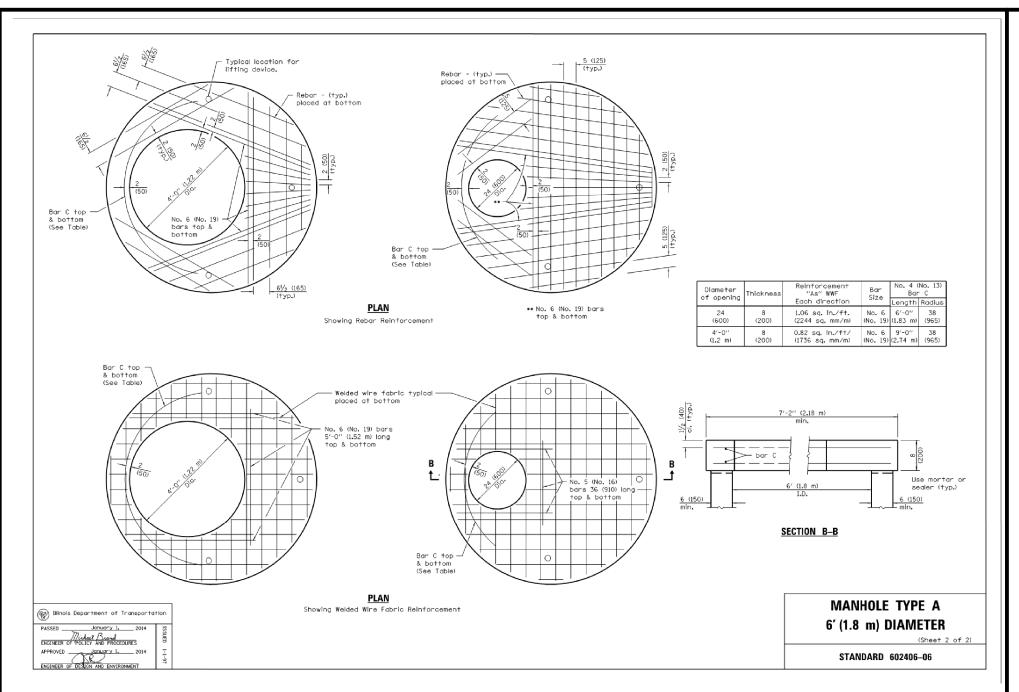
TYPICAL TRENCH CROSS-SECTIONS

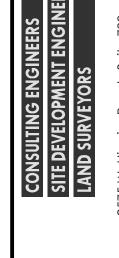
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DETAILS

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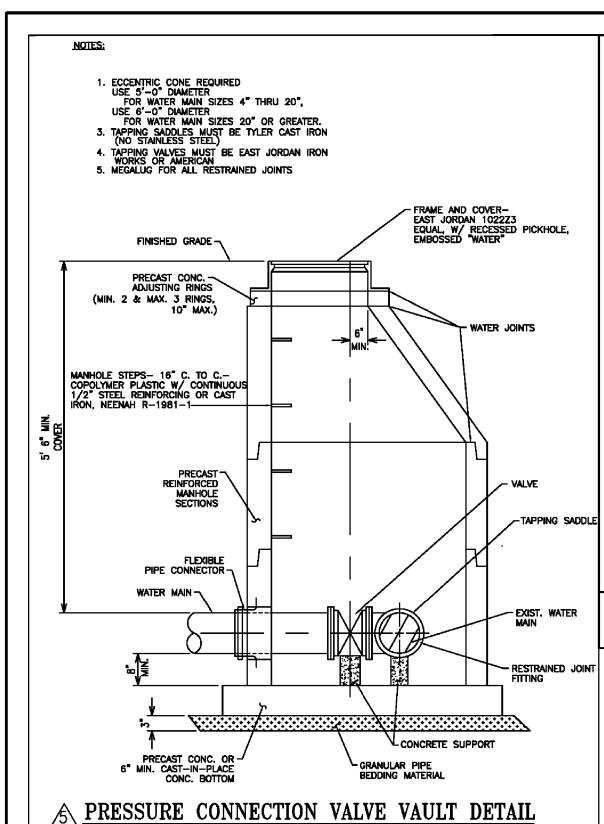


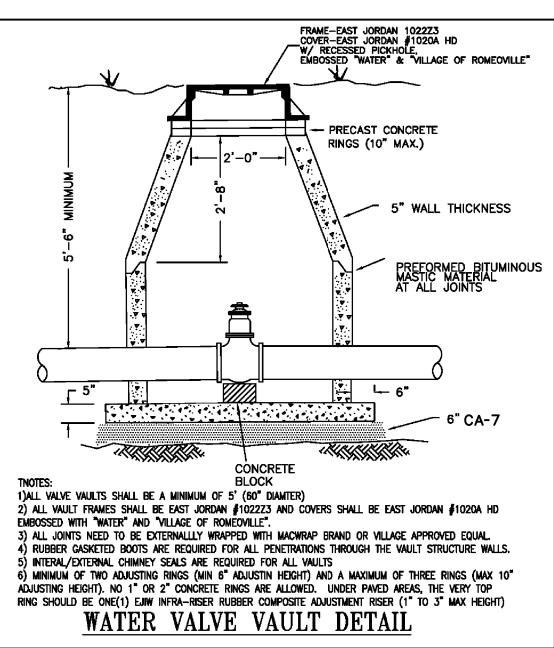
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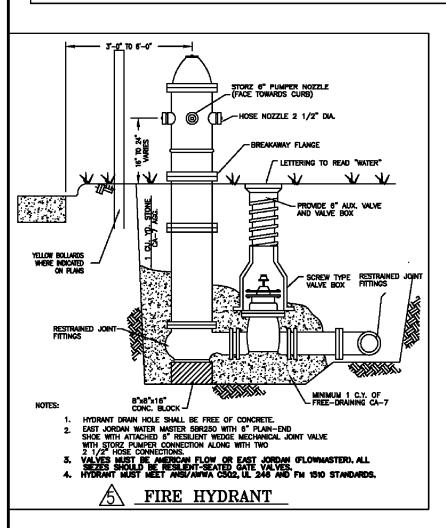
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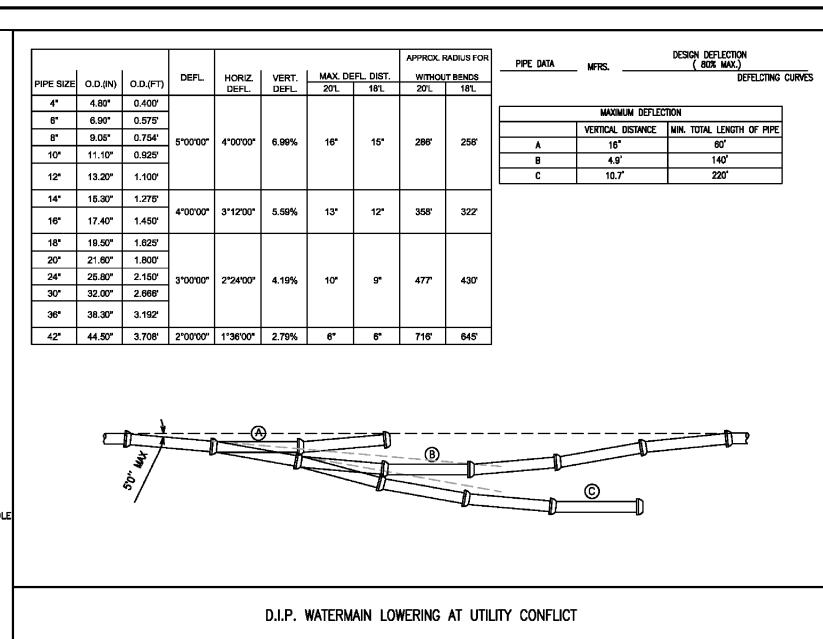
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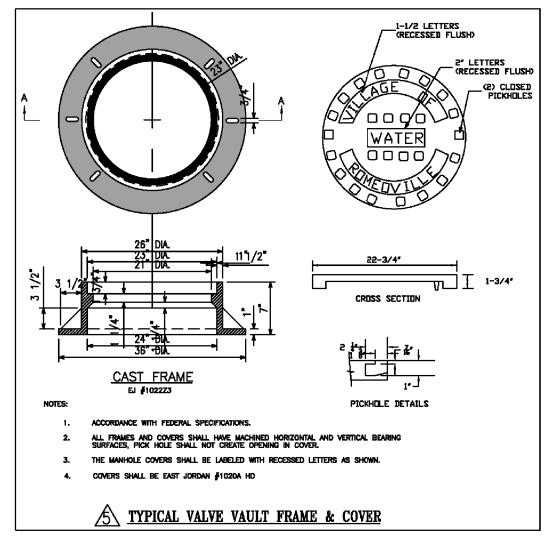
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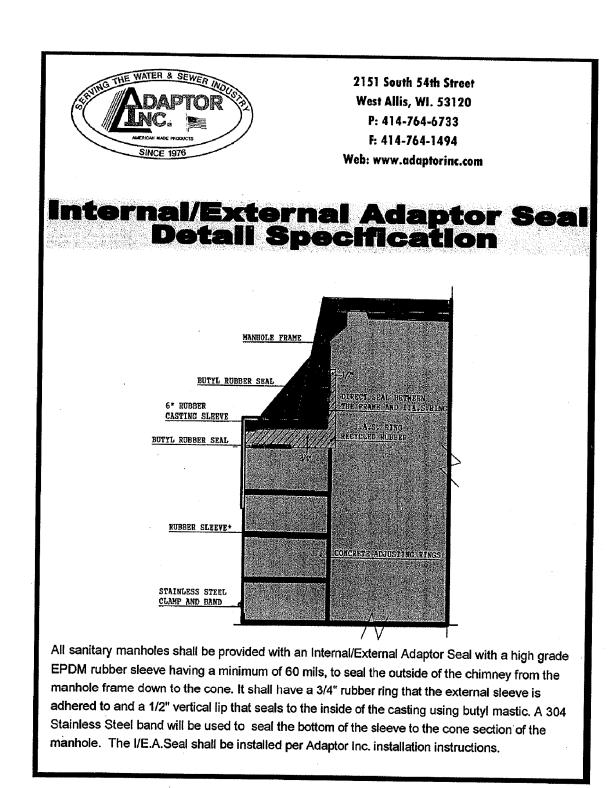


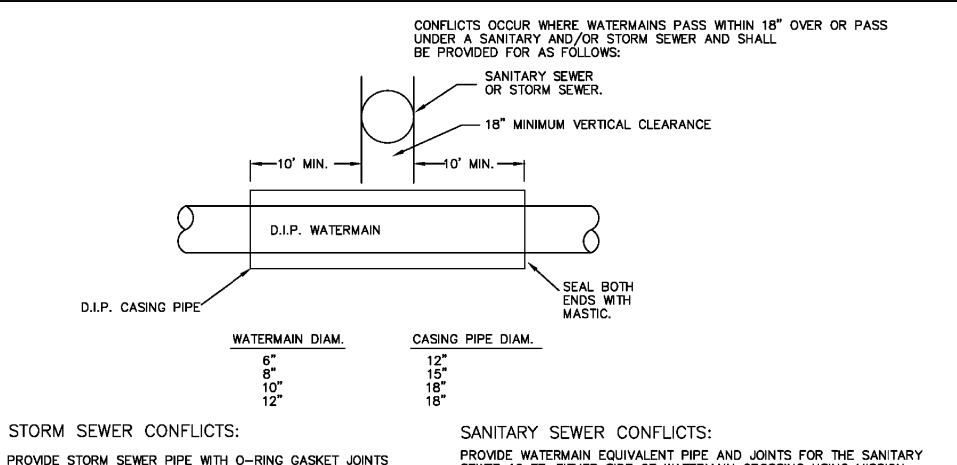






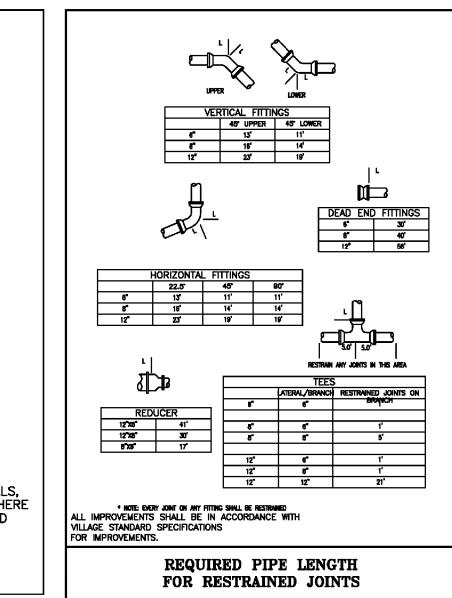


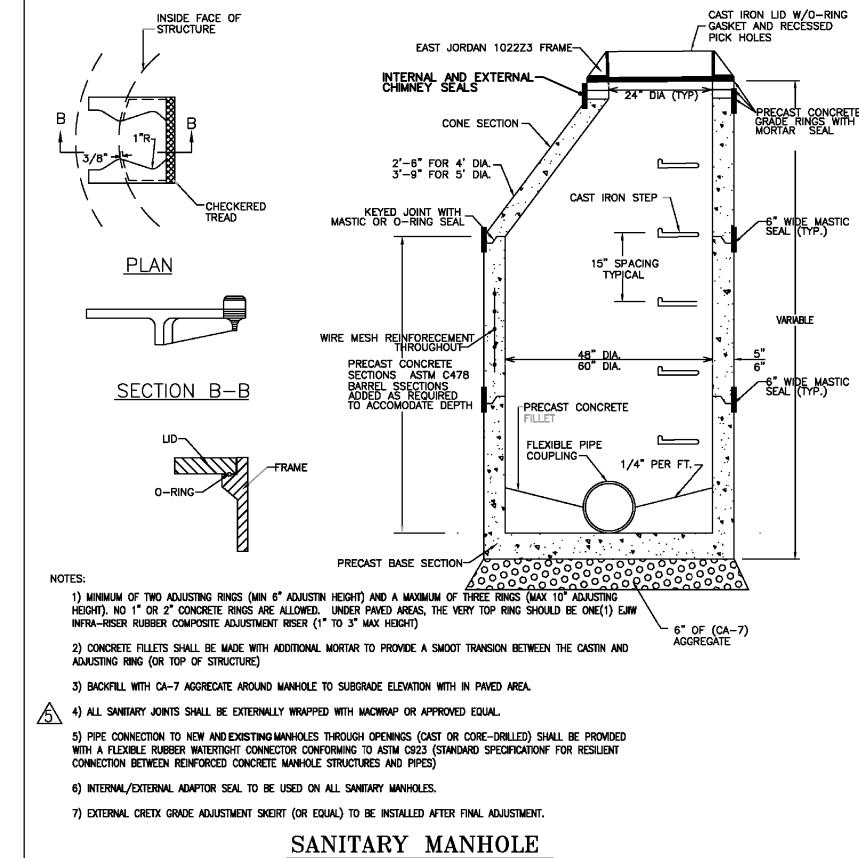


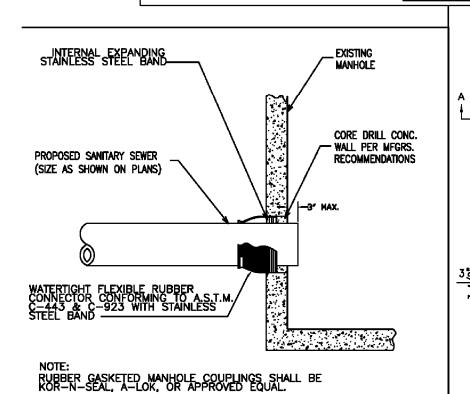


SEWER 10 FT. EITHER SIDE OF WATERMAIN CROSSING USING MISSION CONFORMING TO ASTM C-361 10 FT. EITHER SIDE OF WATERMAIN TYPE COUPLINGS TO MAKE THE TRANSITION BETWEEN THE TWO MATERIALS, CONFLICTS AND PROVIDE A MINIMUM CLEARANCE BETWEEN TOP OF OR ENCASE WATERMAIN AS SHOWN BELOW. REGARDLESS OF METHOD, THERE WATERMAIN AND THE BOTTOM OF THE STORM SEWER. SHALL BE A MINIMUM 18" CLEARANCE BETWEEN TOP OF WATERMAIN AND THE BOTTOM OF THE SANITARY SEWER.

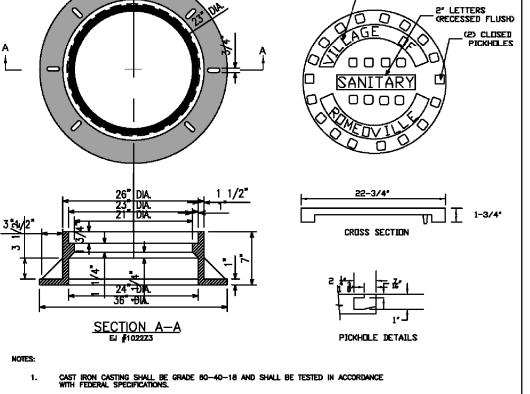
WATERMAIN CONFLICTS







SANITARY SEWER CONNECTION



WATERPROOF, BOLTDOWN FRAME AND COVER SHALL BE USED IN ANY LOCATION SUBJECT TO INUNDATION.

SANITARY MANHOLE FRAME & COVER

5. ALL LIDS WILL REQUIRE A SELF—SEALING GASKET.

ILENAME: 9942DET03

1-1/2 LETTERS

CRECESSED FLUSH)

ALL FRAMES AND COVERS SHALL HAVE MACHINED HORIZONTAL AND VERTICAL BEARING SURFACES, PICK HOLE SHALL NOT CREATE OPENING IN COVER. 3. THE MANHOLE COVERS SHALL BE LABELED WITH RECESSED LETTERS AS SHOWN.

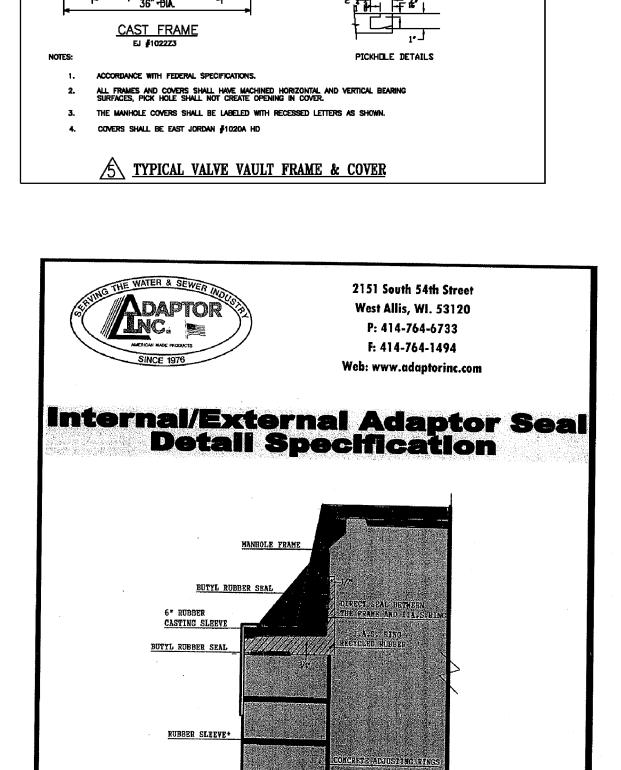
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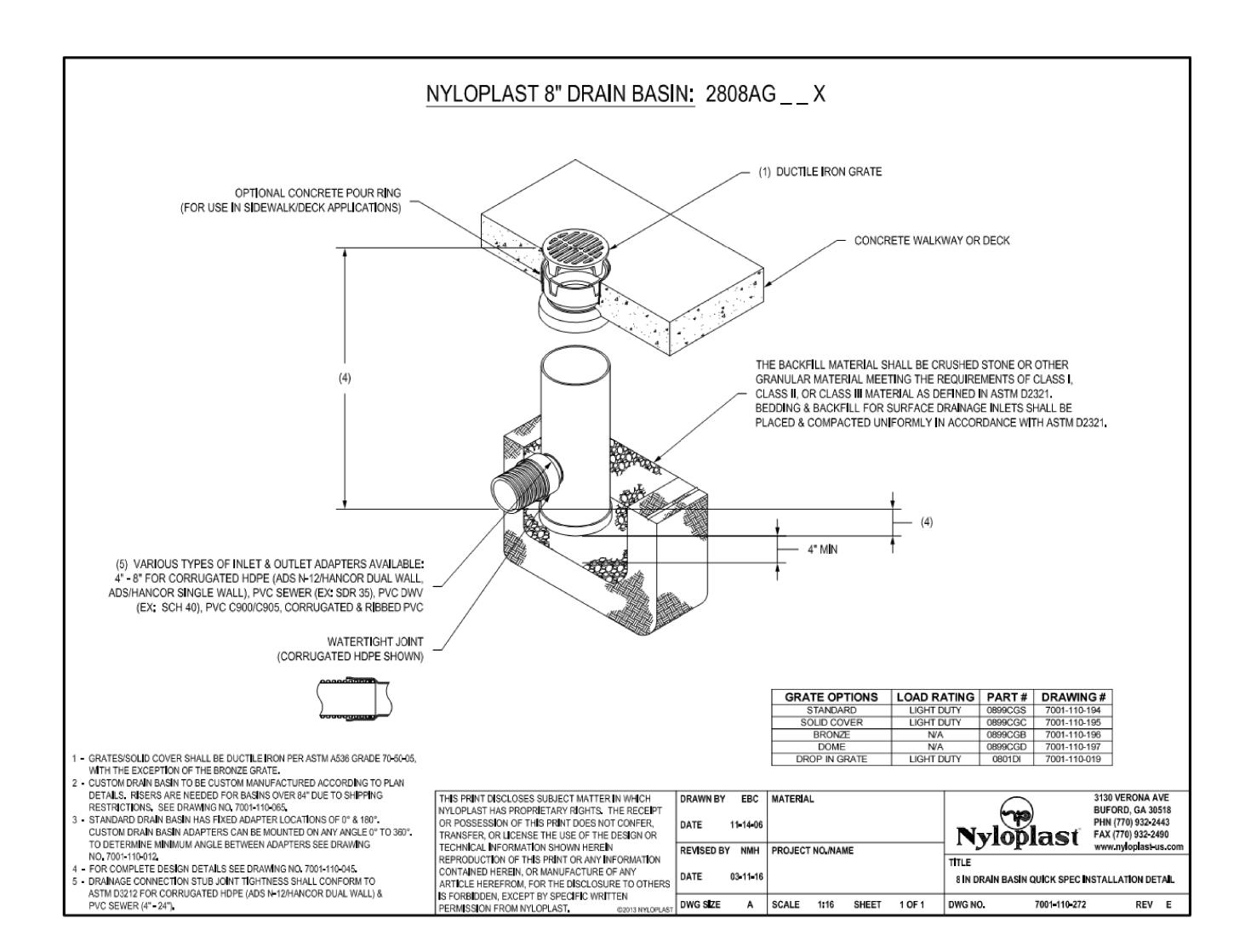
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15 OF 16





7010 CATCH BASIN CURB INLET

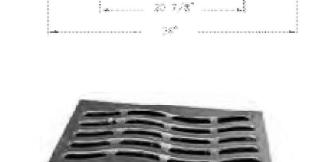
Heavy duty With TYPE M1 grate and T1 back Approximate 130 sq. in. open area

Curb back ht. adjusts from 3 1/2" to 8" "DUMP NO WASTE!" lettering and fish image on back



TYPE T2 Back

Height Adjusts 2" to 3 1/2"

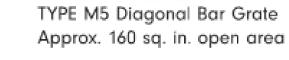




TYPE M3 Sinusoidal Grate Approx. 140 sq. in. open area

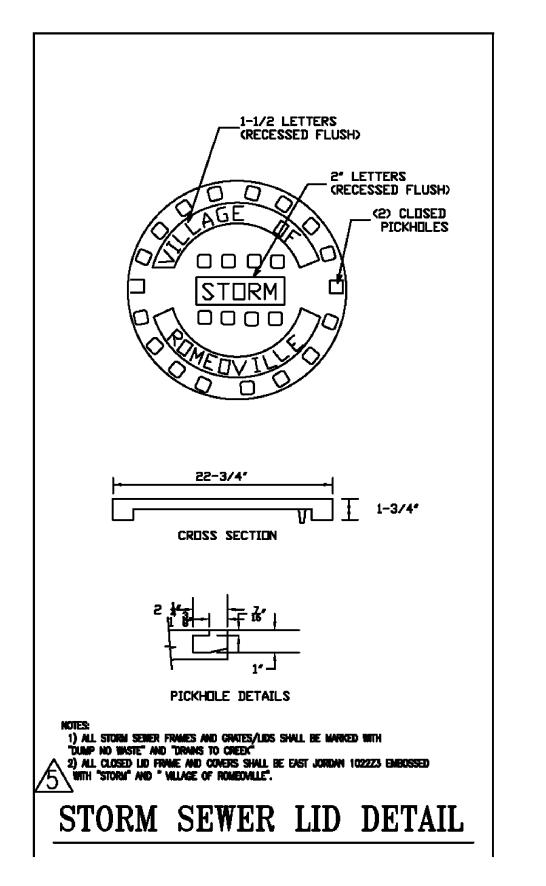
TYPE M4 Vane Grate Approx. 125 sq. in. open area





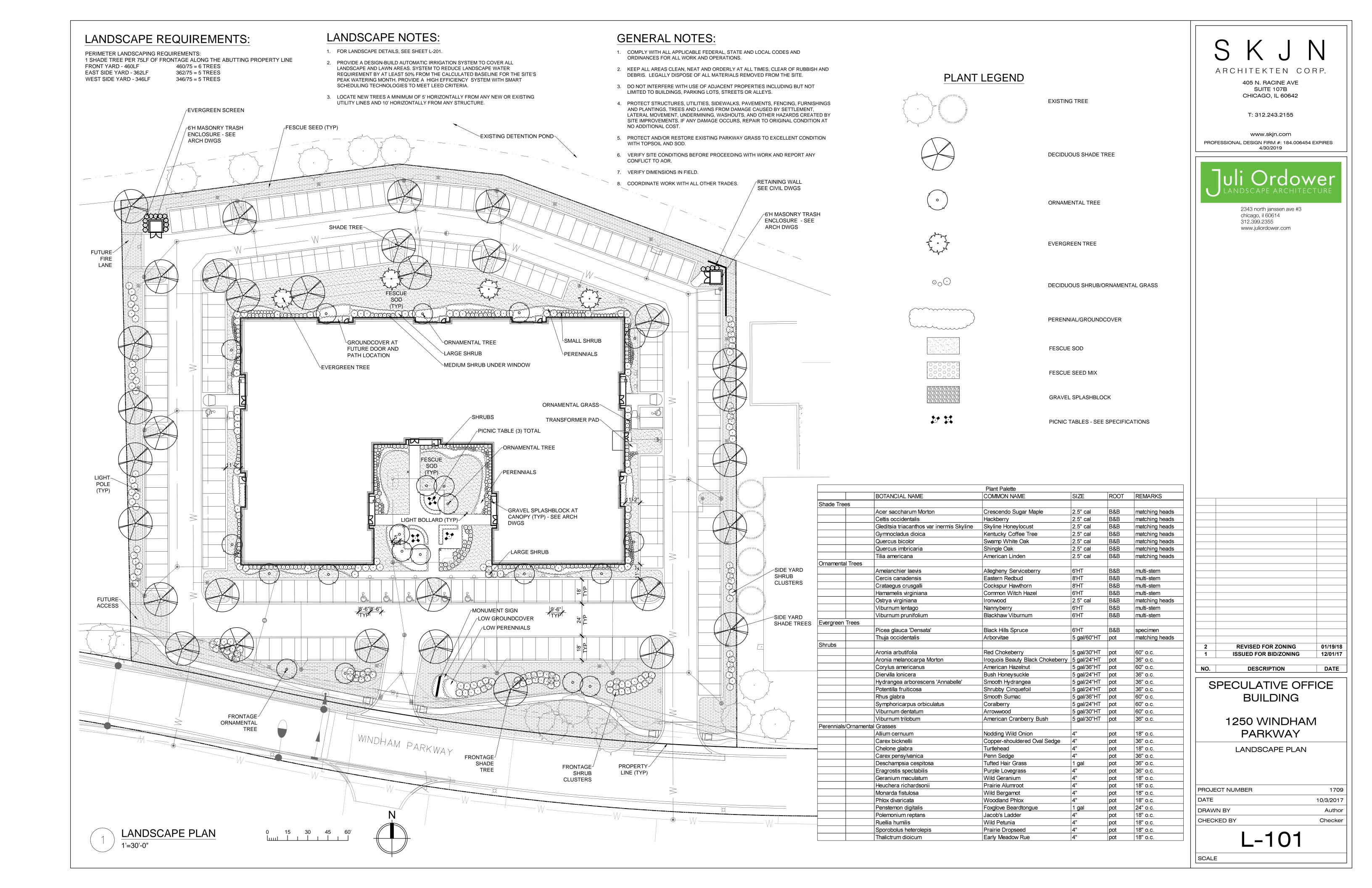


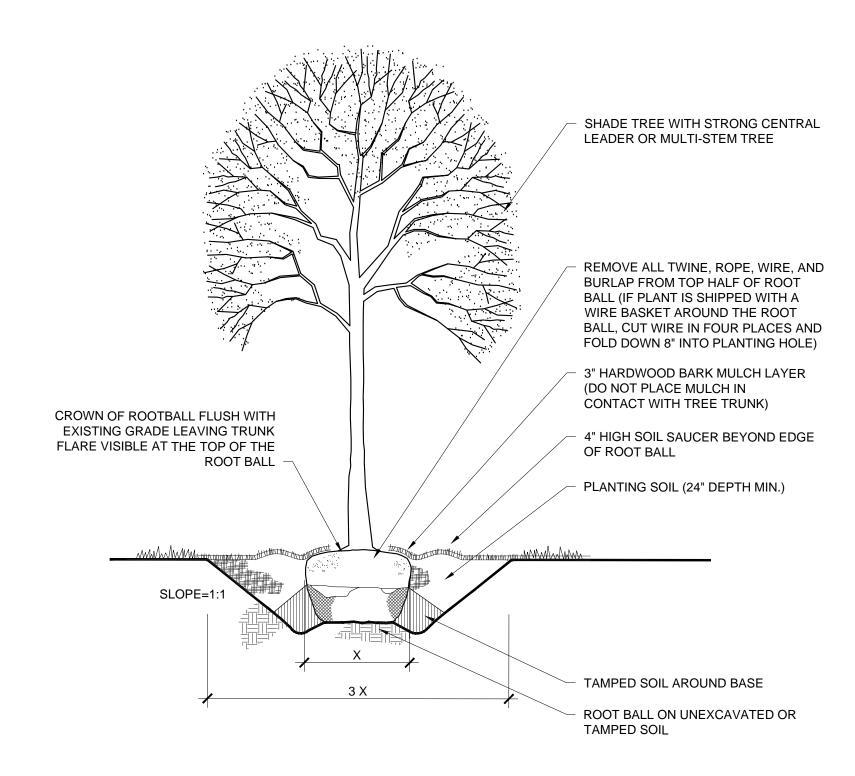
Curb plate with trout image



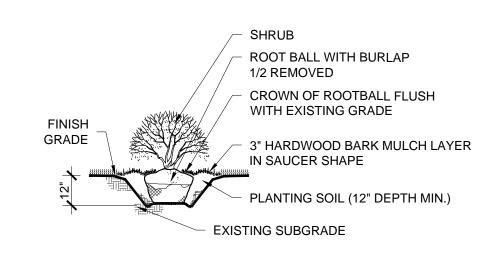




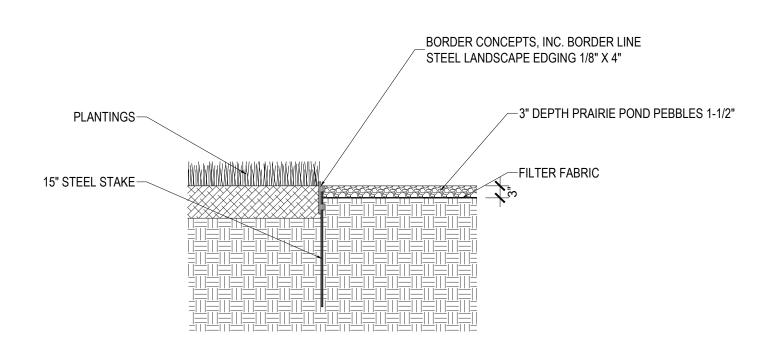






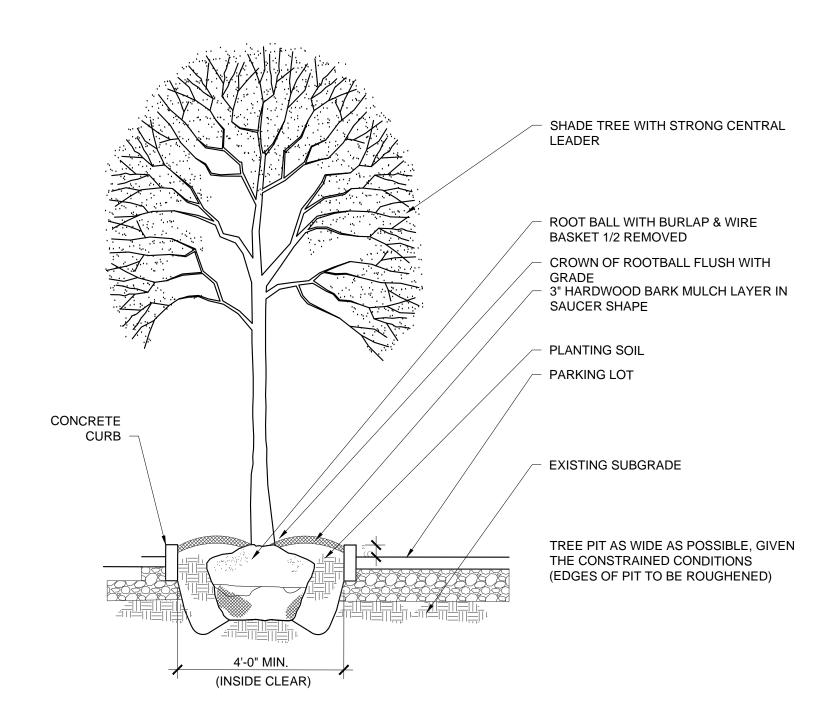


3 SHRUB PLANTING DETAIL NTS

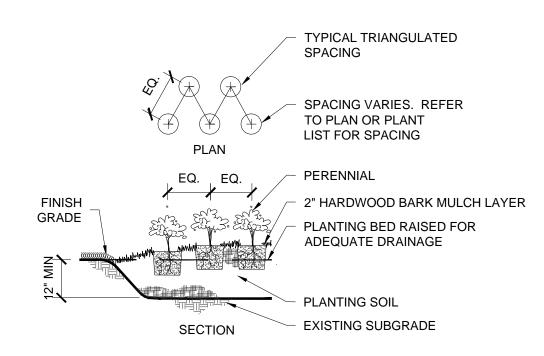


6 GRAVEL SPLASHBLOCK DETAIL

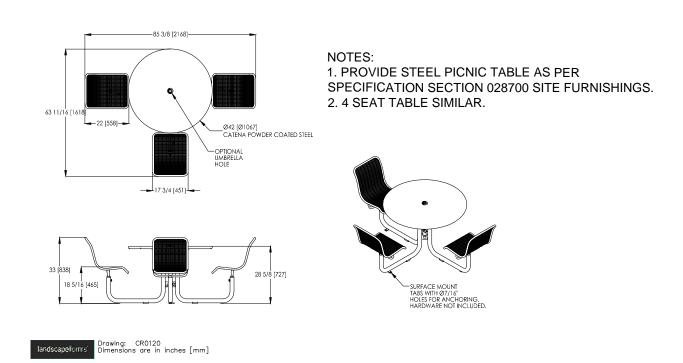
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2 TREE IN ISLAND PLANTING DETAIL









GENERAL PLANTING NOTES

- 1. DETERMINE EXACT LOCATIONS OF ALL UNDERGROUND UTILITIES AND VERIFY IN FIELD. REPORT ANY CONFLICTS TO ARCHITECT OF RECORD (AOR) PRIOR TO BEGINNING WORK.
- 2. INFORM AOR AS EACH PHASE OF WORK IS UNDERTAKEN.
- 3. PROTECT EXISTING VEGETATION INCLUDING ALL EXISTING PARKWAY AND INTERIOR TREES. REPLACE DAMAGED VEGETATION WITH APPROVED SIMILAR MATERIAL.
- 4. MAINTAIN SITE DRAINAGE DURING LANDSCAPE INSTALLATION.
- 5. SLOPE ALL PLANTING AREAS AWAY FROM BUILDING AT 2% MINIMUM GRADE UNLESS NOTED OTHERWISE (UNO).
- 6. PRIOR TO LANDSCAPE INSTALLATION, VERIFY PLANTING AREAS ARE GRADED AT +/- 0.1 FOOT TO FINISH GRADE.

8. FINISH GRADE TO 1" BELOW FINISH PAVING SURFACE IN LAWN AREAS AND 2" BELOW IN PLANTING AREAS.

- 7. IN LANDSCAPE AREAS, FINISH GRADE TO 4" MINIMUM BELOW ADJACENT BUILDING FINISH FLOOR ELEVATION UNO.
- 9. CONFIRM ALL PLANT QUANTITIES. PROVIDE PLANT MATERIALS SUFFICIENT TO COVER AREAS SHOWN ON PLANS AT THE
- 10. PROVIDE SINGLE TRUNK STANDARD TREES UNO.

SPACINGS INDICATED.

- 11. PROVIDE IDENTIFICATION TAG FROM THE SUPPLYING NURSERY SHOWING COMMON AND BOTANICAL PLANT NAMES FOR AT LEAST ONE PLANT OF EACH SPECIES DELIVERED TO THE SITE. PROTECT ALL PLANTS AGAINST HEAT, SUN, WIND AND FROST DURING TRANSPORTATION TO THE SITE AND WHILE BEING HELD AT THE SITE. DO NOT STORE PLANTS IN TOTAL DARKNESS MORE THAN ONE DAY.
- 12. DO NOT DAMAGE PLANT ROOT BALL DURING TRANSPORTATION OR PLANTING.
- 13. NOTIFY THE AOR AT THE TIME OF DELIVERY OF ANY PLANT MATERIAL THAT IS DAMAGED OR IN POOR CONDITION.
- 14. AOR RESERVES THE RIGHT TO INSPECT ALL PLANT MATERIALS BEFORE PLANTING. MATERIAL MAY BE REJECTED AT ANY TIME DUE TO CONDITION, FORM OR DAMAGE BEFORE OR AFTER PLANTING.
- 15. REMOVE ALL ROCK AND DEBRIS 1" AND LARGER FROM PLANTING AREAS. LEGALLY DISPOSE ALL EXCESS MATERIALS RESULTING FROM THE WORK.
- 16. IN PLANTING SOIL PIT, REMOVE CRUSHED AGGREGRATE TO AN ADEQUATE DEPTH TO ENSURE THAT NO PART OF THE PLANT MATERIAL IS IN CONTACT OR AFFECTED BY THE LIME OR LIMESTONE IN THE AGGREGATE
- 17. PROVIDE NEW TOPSOIL THAT IS FERTILE, FRIABLE AND NATURAL LOAM SURFACE SOIL, REASONABLY FREE OF SUBSOIL, CLAY, CLAY LUMPS, BRUSH, WEEDS, AND OTHER LITTER AND FREE OF ROOTS, STUMPS, STONES LARGER THAN 1" IN ANY DIMENSION AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. OBTAIN TOPSOIL FROM LOCAL SOURCES OR FROM AREAS HAVING SIMILAR SOIL CHARACTERISTICS TO THAT NECESSARY FOR VIGOROUS GROWTH OF SPECIFIED PLANTINGS. OBTAIN TOPSOIL THAT OCCURS IN A DEPTH OF NOT LESS THAN 6". DO NOT OBTAIN SOIL FROM BOGS OR MARSHES.
- 18. MIX SOIL AMENDMENTS AND FERTILIZERS WITH TOPSOIL ON A SITE SPECIFIC BASIS AT RATES APPROPRIATE FOR PLANTINGS IN ACCORDANCE WITH SPECIFICATIONS.
- 19. STAKE LOCATION OF ALL TREES, HEDGE LINES AND PLANTING BEDS AND NOTIFY AOR FOR REVIEW PRIOR TO PLANTING.
- 20. THE PLANTING PLANS ARE DIAGRAMMATIC. SPOT PLANT MATERIALS APPROXIMATELY AS SHOWN ON THE LANDSCAPE DRAWING AND NOTIFY AOR FOR REVIEW BEFORE REMOVING FROM CONTAINERS.
- 21. INSTALL ALL PLANT MATERIAL IN ACCORDANCE WITH DETAILS AND SPECIFICATIONS.
- 22. REMOVE ALL PLANT TYING MATERIAL AND MARKING TAPES AT THE TIME OF PLANTING.
- 23. INSTALL A MIN 3" LAYER OF HARDWOOD BARK MULCH AROUND ALL TREES AND IN ALL PLANTING AREAS UNO. CREATE A NATURAL SPADED EDGE WHERE PLANTING BEDS MEET TURF AREAS.
- 24. WATER ALL PLANTS IMMEDIATELY AFTER PLANTING. FLOOD PLANTS TWICE DURING FIRST TWENTY-FOUR HOUR PERIOD OF PLANTING.
- 25. CONTRACTOR IS RESPONSIBLE FOR ALL PLANT MATERIAL REMAINING PLUMB UNTIL THE END OF THE GUARANTEE PERIOD. PLANTS MAY NOT BE STAKED UNLESS APPROVED BY THE LANDSCAPE ARCHITECT.
- 26. PRUNE ALL DECIDUOUS PARKWAY SHADE TREES FOR A MINIMUM LOWEST BRANCH HEIGHT OF 7 FEET.
- 27. INSTALL AND MAINTAIN SOD TO PREVENT EVIDENT SEAMS.
- 28. PROTECT SEEDED AREAS AND SLOPES AGAINST EROSION AND SEED LOSS DUE TO BIRDS AND OTHER WILDLIFE BY APPLYING SHORT TERM, BIODEGRADABLE EROSION CONTROL BLANKETS, MATS, AND/OR NETTING AFTER COMPLETION OF SEEDING OPERATIONS. ADHERE TO MANUFACTURER'S SPECIFICATIONS FOR REQUIRED PLACEMENT AND STAKING.
- 29. WARRANTY ALL PLANTS AND LAWN AS PER SPECIFICATIONS. REPLACE ANY PLANTS OR LAWN EXPERIENCING DEATH AND DEFECTS INCLUDING UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM NEGLECT BY OWNER, ABUSE OR DAMAGE BY OTHERS OR UNUSUAL PHENOMENON OR INCIDENTS WHICH ARE BEYOND CONTROL.

SKJN

ARCHITEKTEN CORP.
405 N. RACINE AVE

SUITE 107B

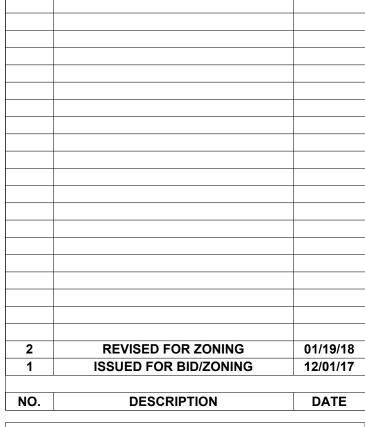
CHICAGO, IL 60642

T: 312.243.2155

www.skjn.com
PROFESSIONAL DESIGN FIRM #: 184.006454 EXPIRES



2343 north janssen ave #3 chicago, il 60614 312.399.2355 www.juliordower.com



SPECULATIVE OFFICE BUILDING

1250 WINDHAM PARKWAY

> LANDSCAPE DETAILS

PROJECT NUMBER 1709

DATE 10/3/2017

DRAWN BY Author

CHECKED BY Checker

L-201

SCALE

SKJN

SUITE 107B CHICAGO, IL 60642

ARCHITEKTEN CORP.
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www.skjn.com
PROFESSIONAL DESIGN FIRM #: 184.006454 EXPIRES
4/30/2019

2 REVISED FOR ZONING 01/19/18
1 ISSUED FOR BID/ZONING 12/01/17

NO. DESCRIPTION DATE

SPECULATIVE OFFICE BUILDING

1250 WINDHAM PARKWAY

SITE PLAN

PROJECT NUMBER 1709

DATE 12/01/2017

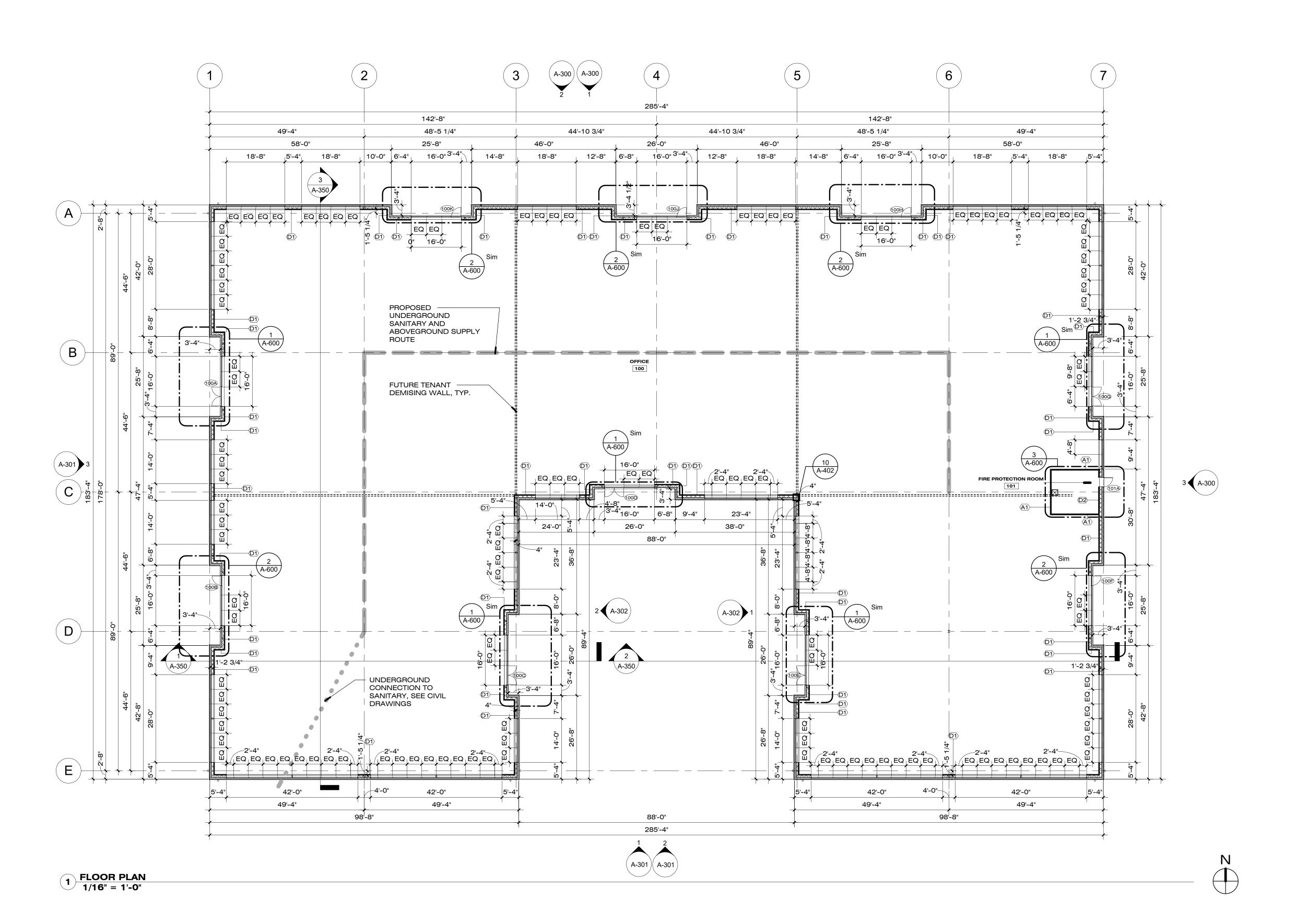
DRAWN BY AP

CHECKED BY SK

A-100

SCALE

1" = 30'-0"



SKJN

SUITE 107B CHICAGO, IL 60642

ARCHITEKTEN CORP.
405 N. RACINE AVE

T: 312.243.2155

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NOTES:

 REFER TO DRAWING A-600 FOR PARTITION TYPES.

1 ISSUED FOR BID/ZONING 12/01/17

NO. DESCRIPTION DATE

SPECULATIVE OFFICE BUILDING

1250 WINDHAM PARKWAY

FLOOR PLAN

PROJECT NUMBER 1709

DATE 12/01/2017

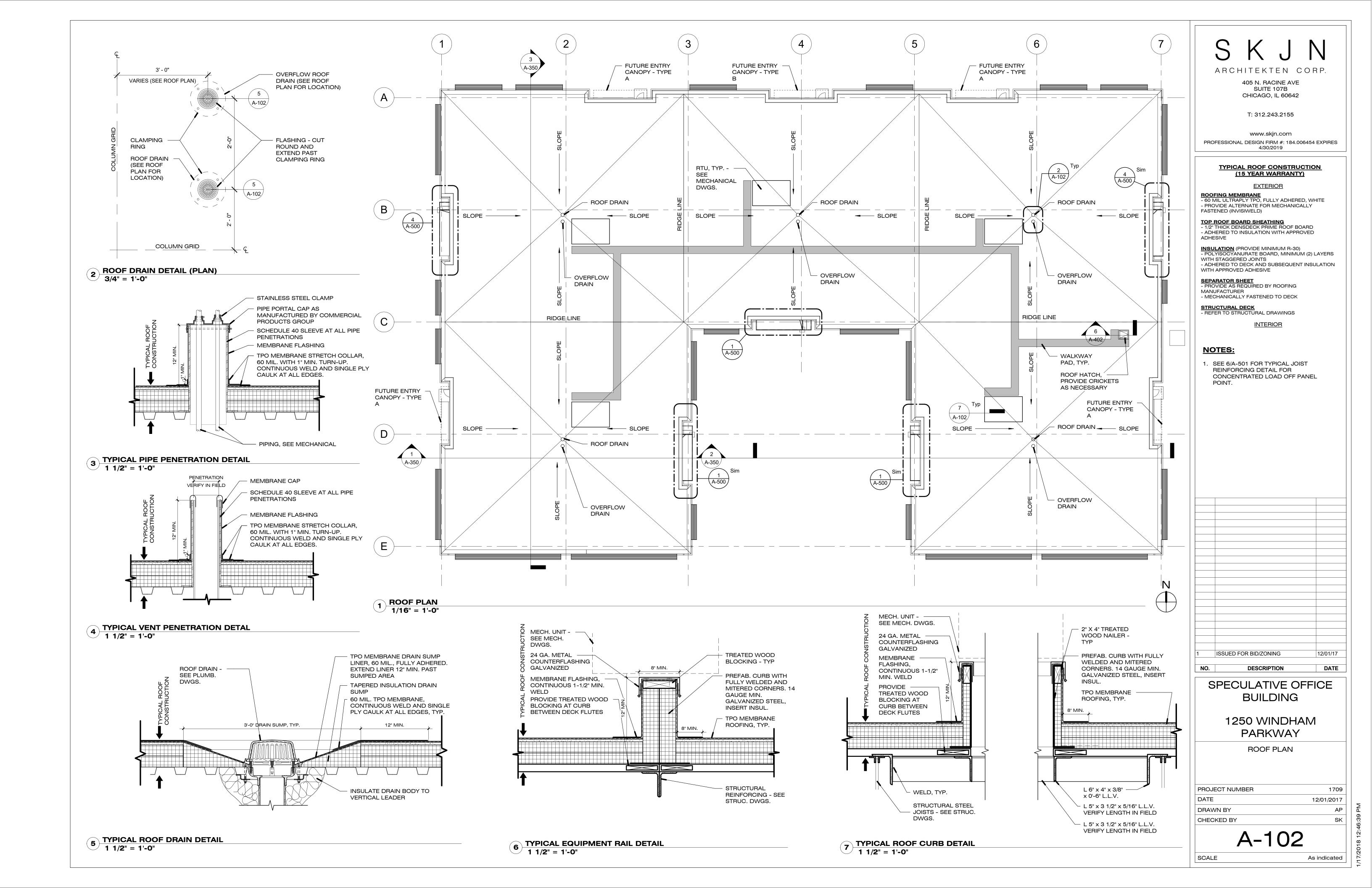
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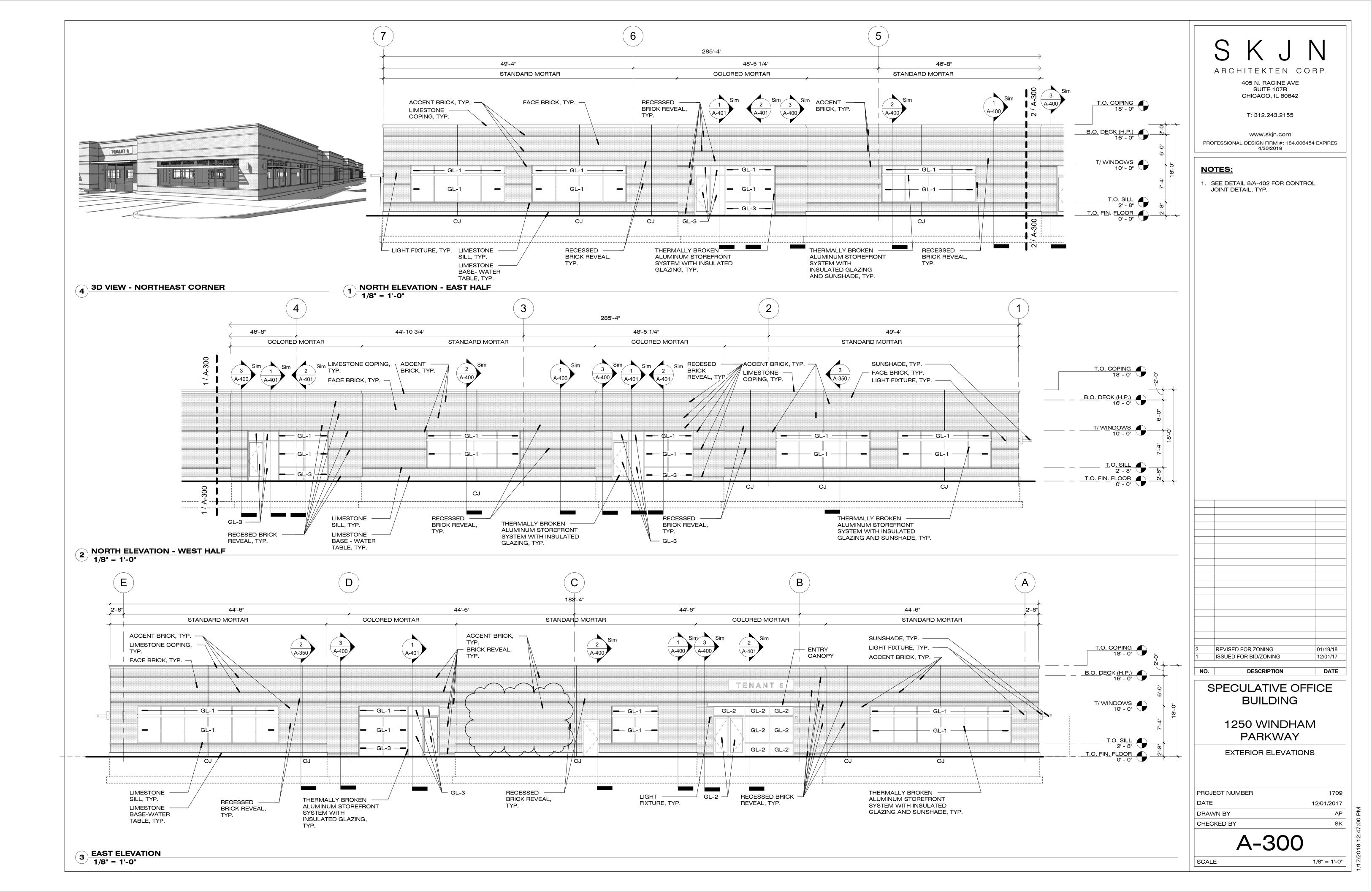
CHECKED BY SK

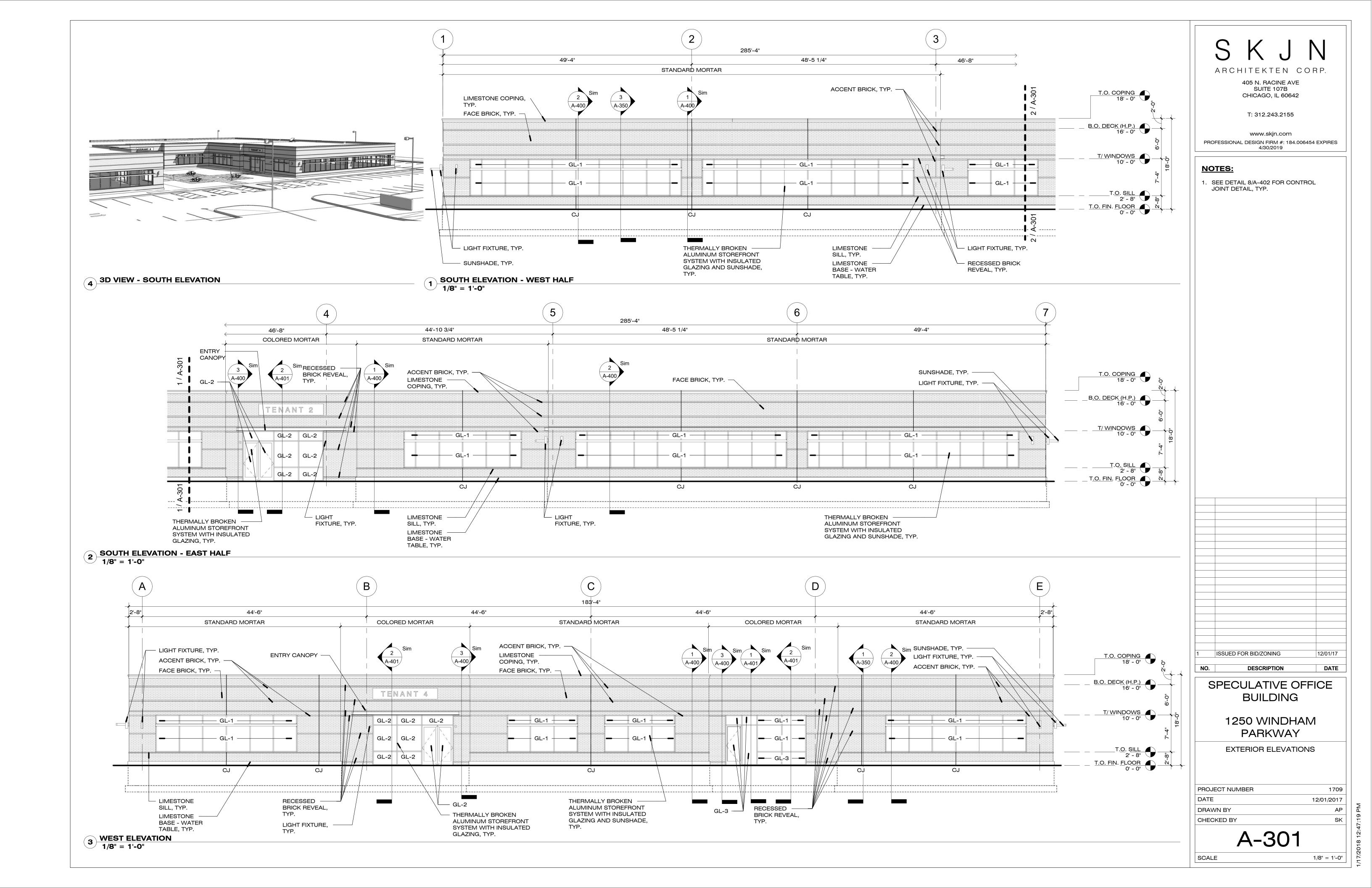
A-101

SCALE

1/16" = 1'-0"



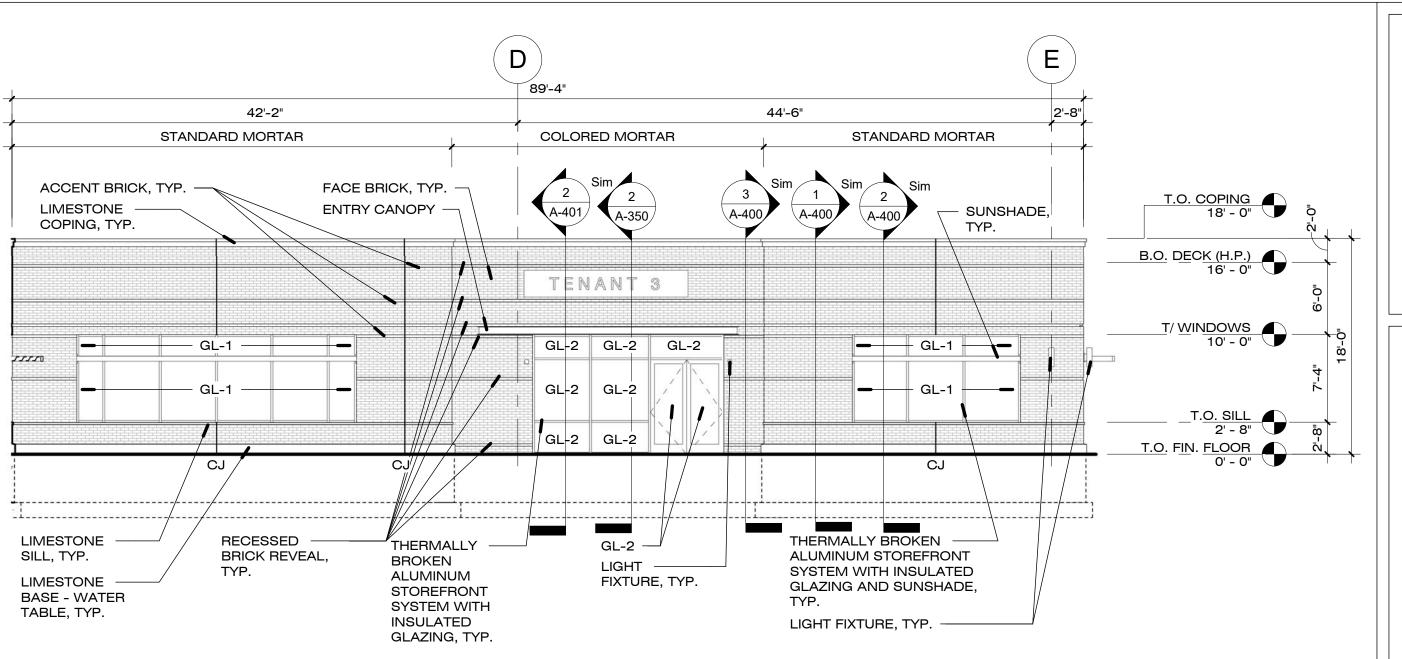




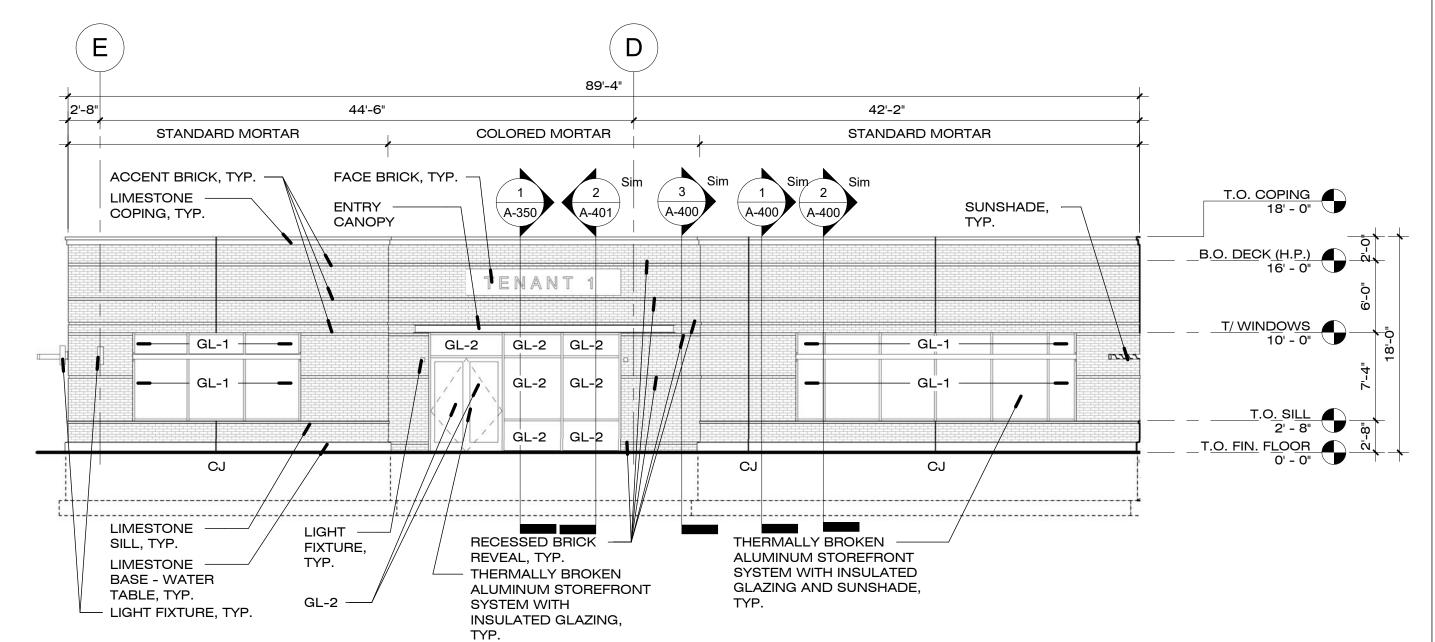




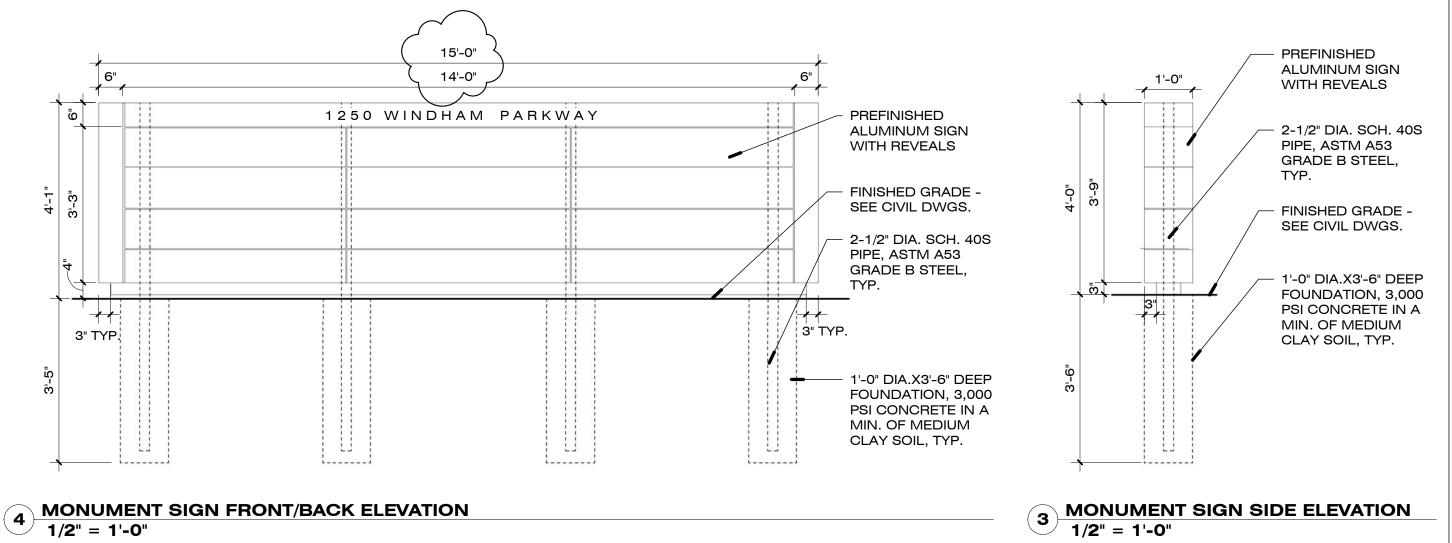
6 CANOPY WORMSEYE



EAST ELEVATION - COURTYARD



WEST ELEVATION - COURTYARD 1/8" = 1'-0"



1/2" = 1'-0"

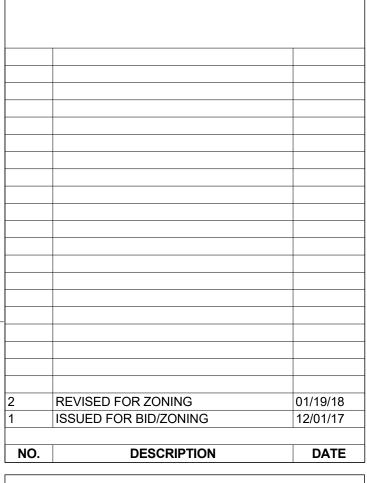
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NOTES:

1. SEE DETAIL 8/A-402 FOR CONTROL JOINT DETAIL, TYP.



SPECULATIVE OFFICE BUILDING

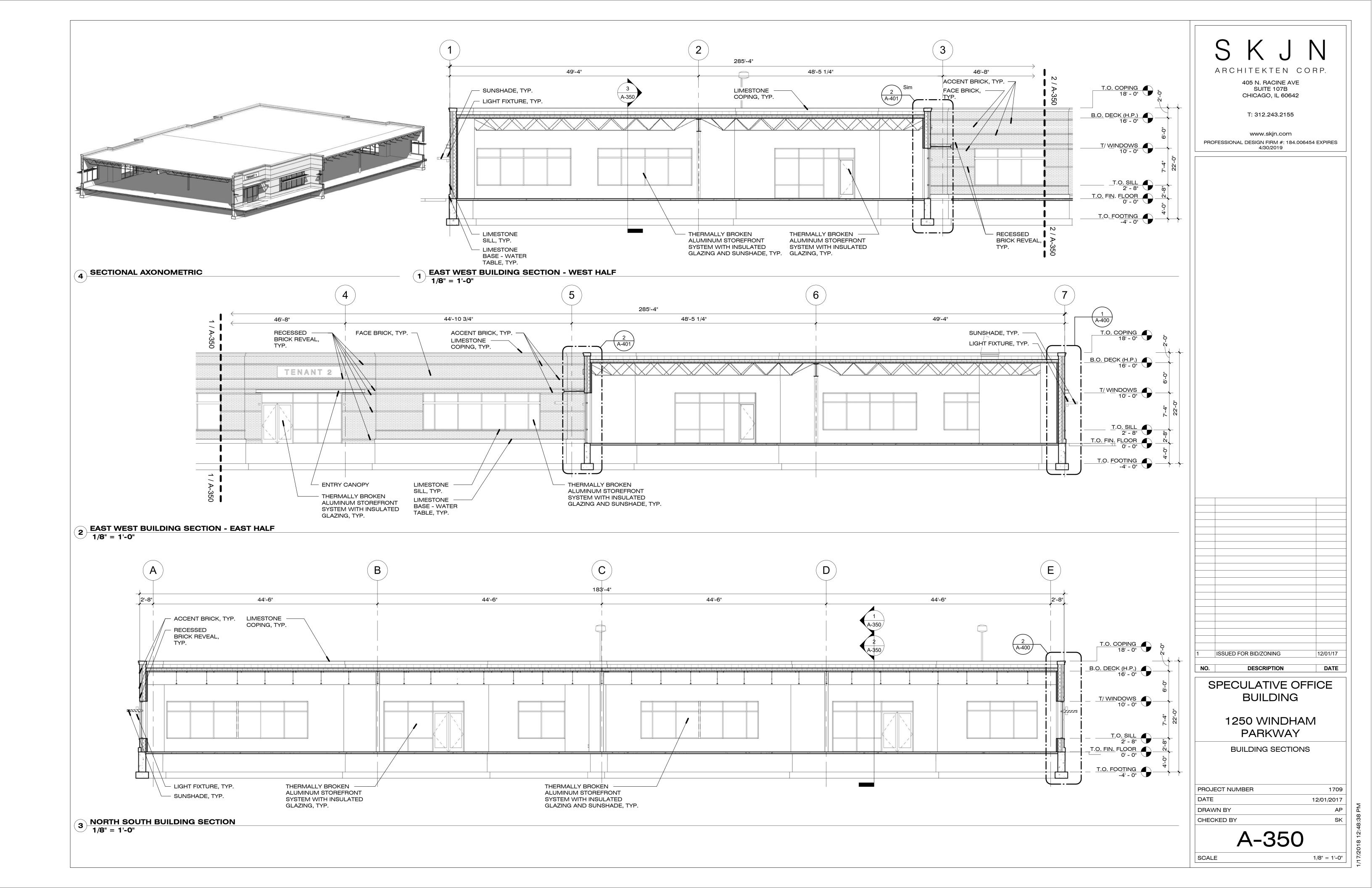
> 1250 WINDHAM **PARKWAY**

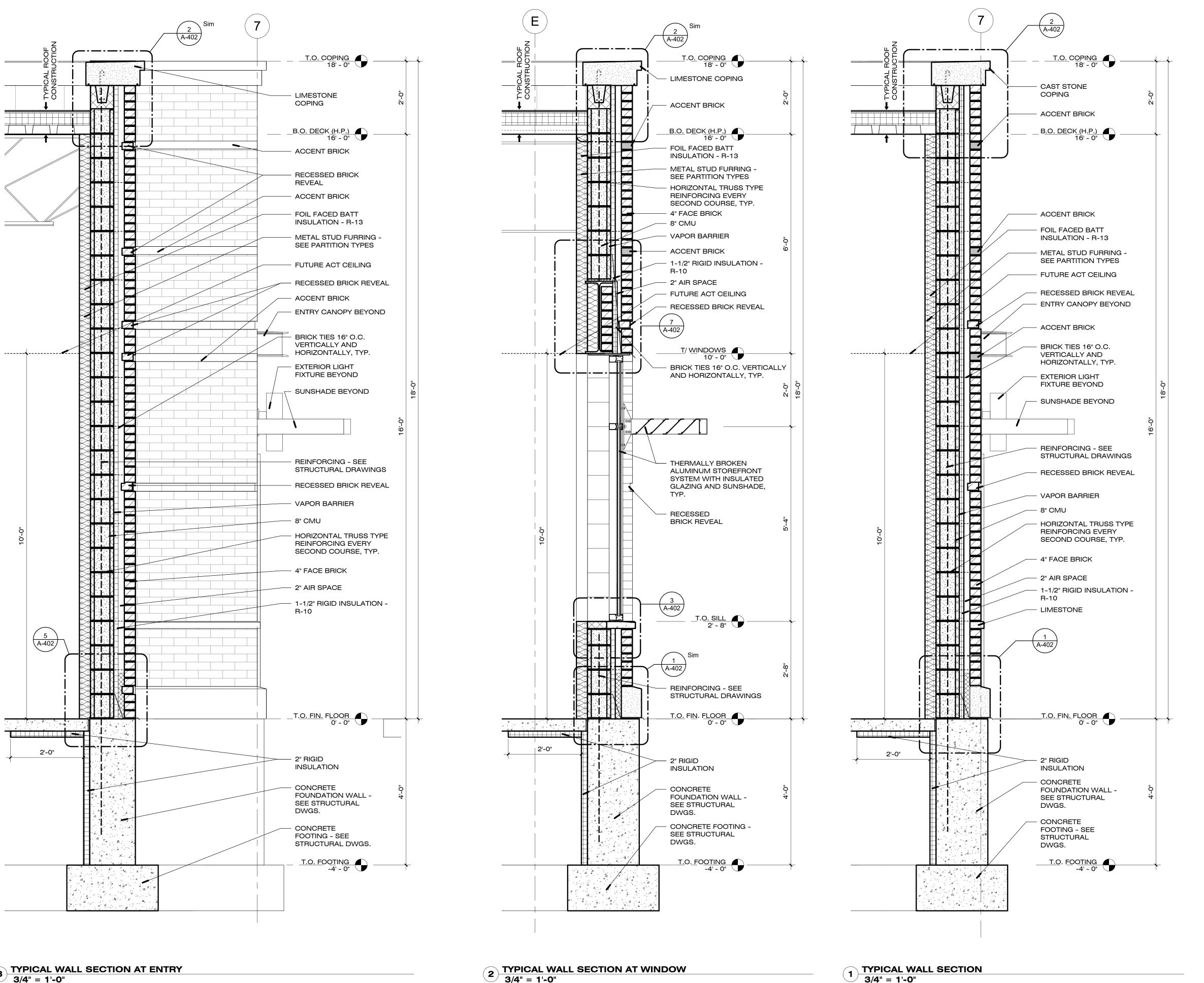
EXTERIOR ELEVATIONS

PROJECT NUMBER 1709 12/01/2017 DRAWN BY CHECKED BY

A-302

SCALE As indicated





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TYPICAL ROOF CONSTRUCTION (15 YEAR WARRANTY)

ROOFING MEMBRANE
- 60 MIL ULTRAPLY TPO, FULLY ADHERED, WHITE - PROVIDE ALTERNATE FOR MECHANICALLY FASTENED (INVISIWELD)

TOP ROOF BOARD SHEATHING - 1/2" THICK DENSDECK PRIME ROOF BOARD - ADHERED TO INSULATION WITH APPROVED

INSULATION (PROVIDE MINIMUM R-30)
- POLYISOCYANURATE BOARD, MINIMUM (2) LAYERS WITH STAGGERED JOINTS - ADHERED TO DECK AND SUBSEQUENT INSULATION WITH APPROVED ADHESIVE

SEPARATOR SHEET
- PROVIDE AS REQUIRED BY ROOFING MANUFACTURER - MECHANICALLY FASTENED TO DECK

<u>STRUCTURAL DECK</u>
- REFER TO STRUCTURAL DRAWINGS

<u>INTERIOR</u>

12/01/17 ISSUED FOR BID/ZONING DESCRIPTION DATE

SPECULATIVE OFFICE BUILDING

1250 WINDHAM **PARKWAY**

WALL SECTIONS

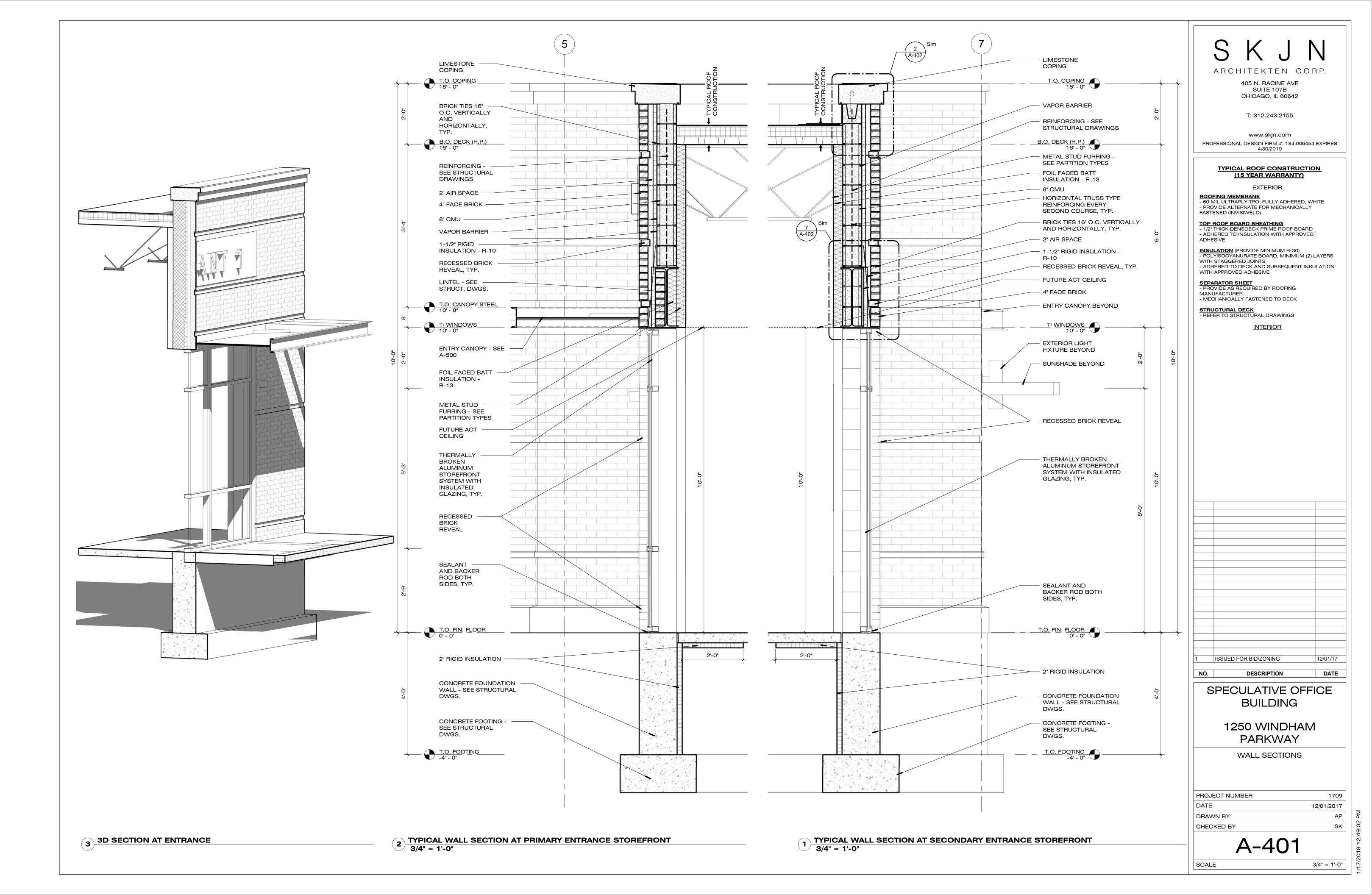
PROJECT NUMBER 1709 12/01/2017 DRAWN BY CHECKED BY

A-400

3 TYPICAL WALL SECTION AT ENTRY

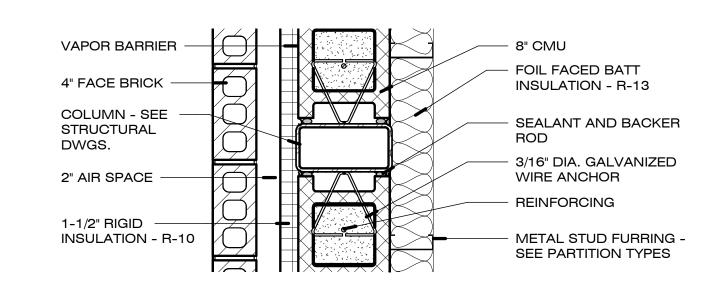
3/4" = 1'-0"

SCALE 3/4" = 1'-0"

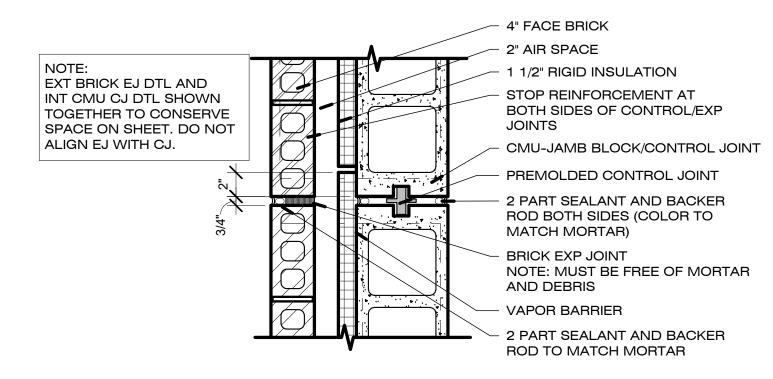


10 DETAIL - CORNER COLUMN CONNECTION

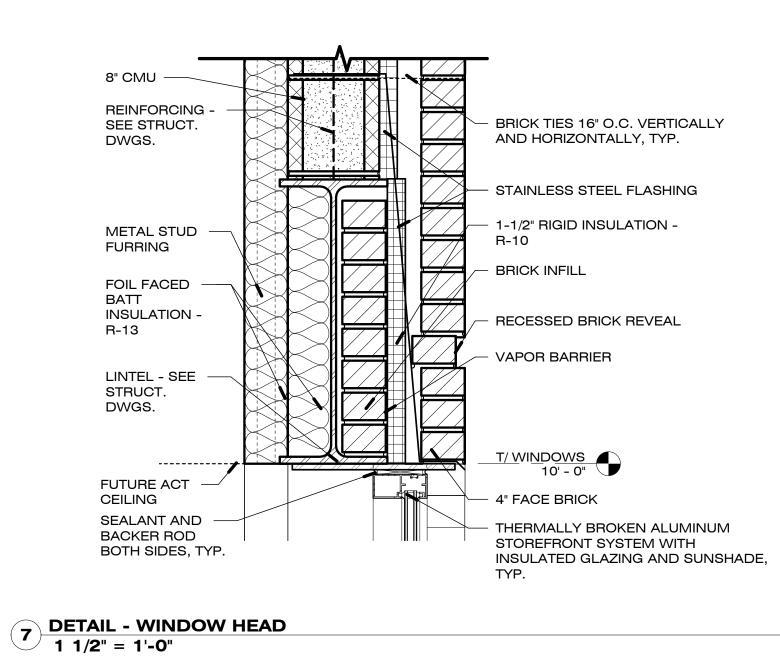
/ 1 1/2" = 1'-0"



9 DETAIL - COLUMN CONNECTION 1 1/2" = 1'-0"

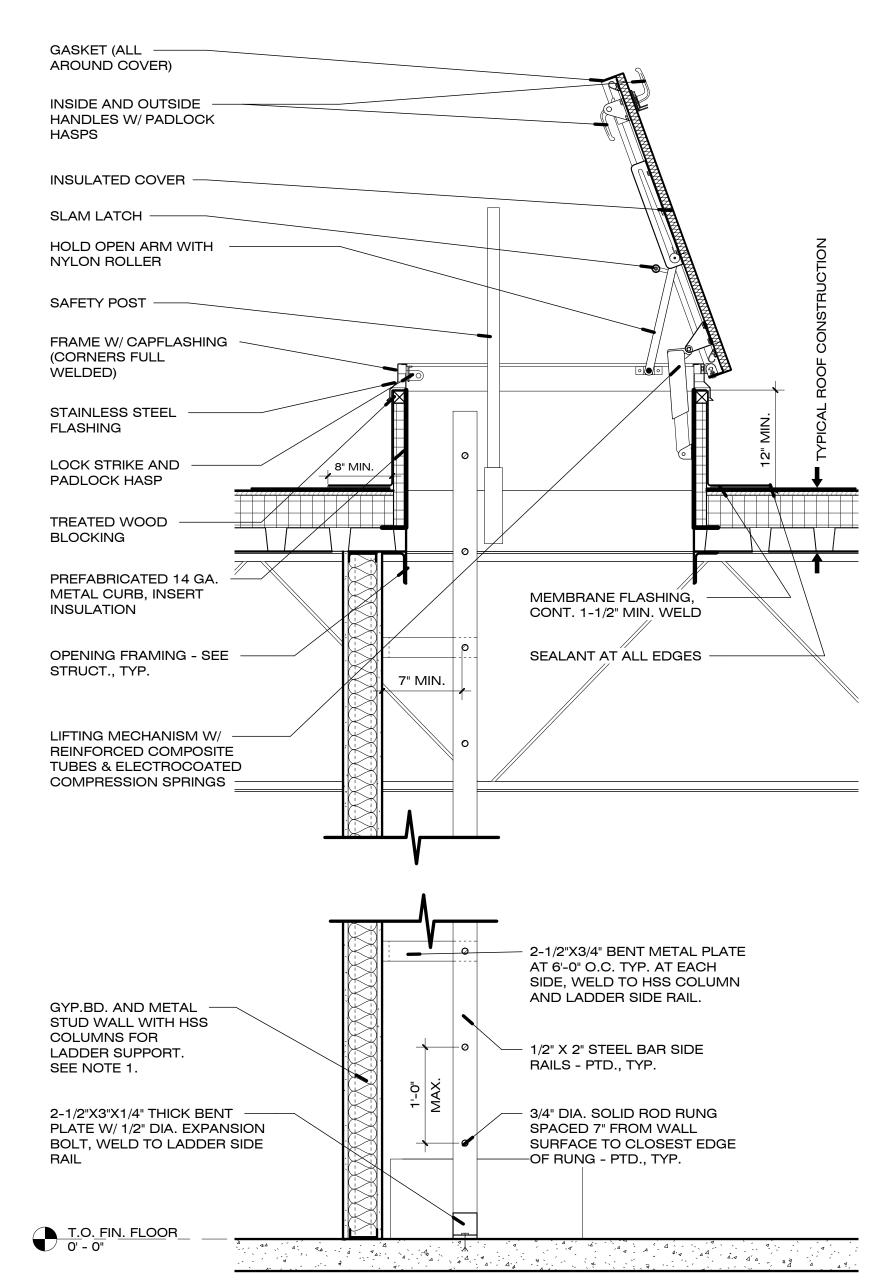


8 TYPICAL CONTROL JOINT 1 1/2" = 1'-0"



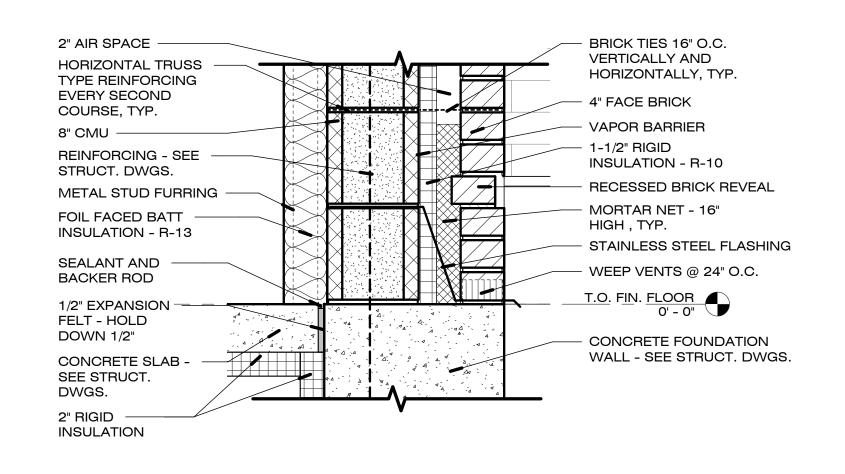
DETAIL - TYPICAL WALL BASE AT ENTRY

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



1. HSS COLUMNS FOR LADDER SUPPORT FULL HEIGHT. TIE T.O. HSS TO ROOF FRAMING. ALLOW FOR 2" VERT. ROOF DEFLECTION.

6 ROOF HATCH AT LADDER 1" = 1'-0"



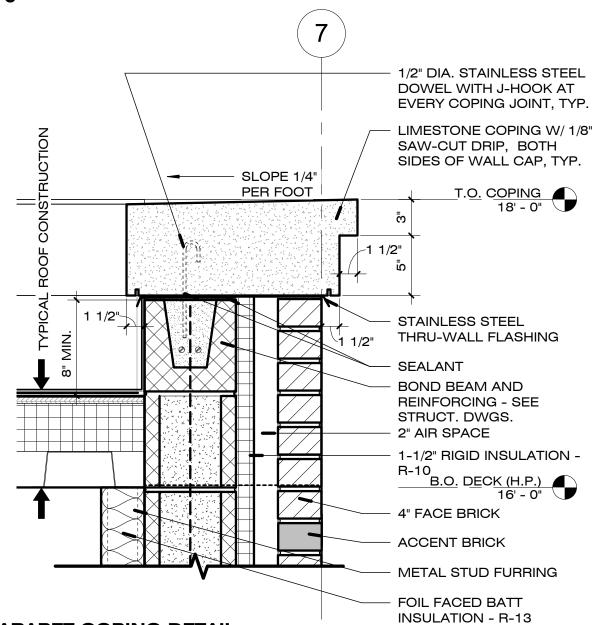
8" CMU 4" BRICK METAL STUD 2" AIR SPACE FURRING WITH FOIL FACED BATT 1-1/2" RIGID INSULATION - R-13 INSULATION - R-10 THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM SEALANT AND WITH INSULATED BACKER ROD BOTH GLAZING, TYP. SIDES, TYP.

STOREFRONT JAMB DETAIL [/] 1 1/2" = 1'-0"

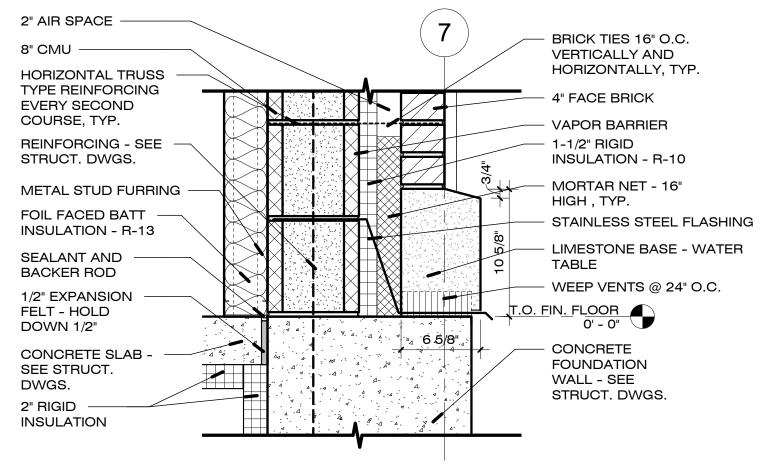
THERMALLY BROKEN **ALUMINUM STOREFRONT** SYSTEM WITH INSULATED GLAZING AND SUNSHADE SEALANT AND BACKER ROD BOTH SIDES, TYP. SLOPED LIMESTONE SILL SOLID CMU -W/DRIP 8" CMU -T.O. SILL 2' - 8" METAL STUD VAPOR BARRIER FURRING 1-1/2" RIGID RIGID FOIL FACED BATT INSULATION - R-13 **INSULATION - R-10** 2" AIR SPACE REINFORCING - SEE STRUCTURAL 4" FACE BRICK DRAWINGS

DETAIL - WINDOW SILL

1 1/2" = 1'-0"



TYPICAL PARAPET COPING DETAIL 1 1/2" = 1'-0"



DETAIL - TYPICAL WALL BASE

1 1/2" = 1'-0"

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TYPICAL ROOF CONSTRUCTION (15 YEAR WARRANTY)

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INSULATION (PROVIDE MINIMUM R-30)
- POLYISOCYANURATE BOARD, MINIMUM (2) LAYERS WITH STAGGERED JOINTS - ADHERED TO DECK AND SUBSEQUENT INSULATION WITH APPROVED ADHESIVE

<u>SEPARATOR SHEET</u> - PROVIDE AS REQUIRED BY ROOFING MANUFACTURER

- MECHANICALLY FASTENED TO DECK

<u>STRUCTURAL DECK</u> - REFER TO STRUCTURAL DRAWINGS

<u>INTERIOR</u>

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SPECULATIVE OFFICE **BUILDING**

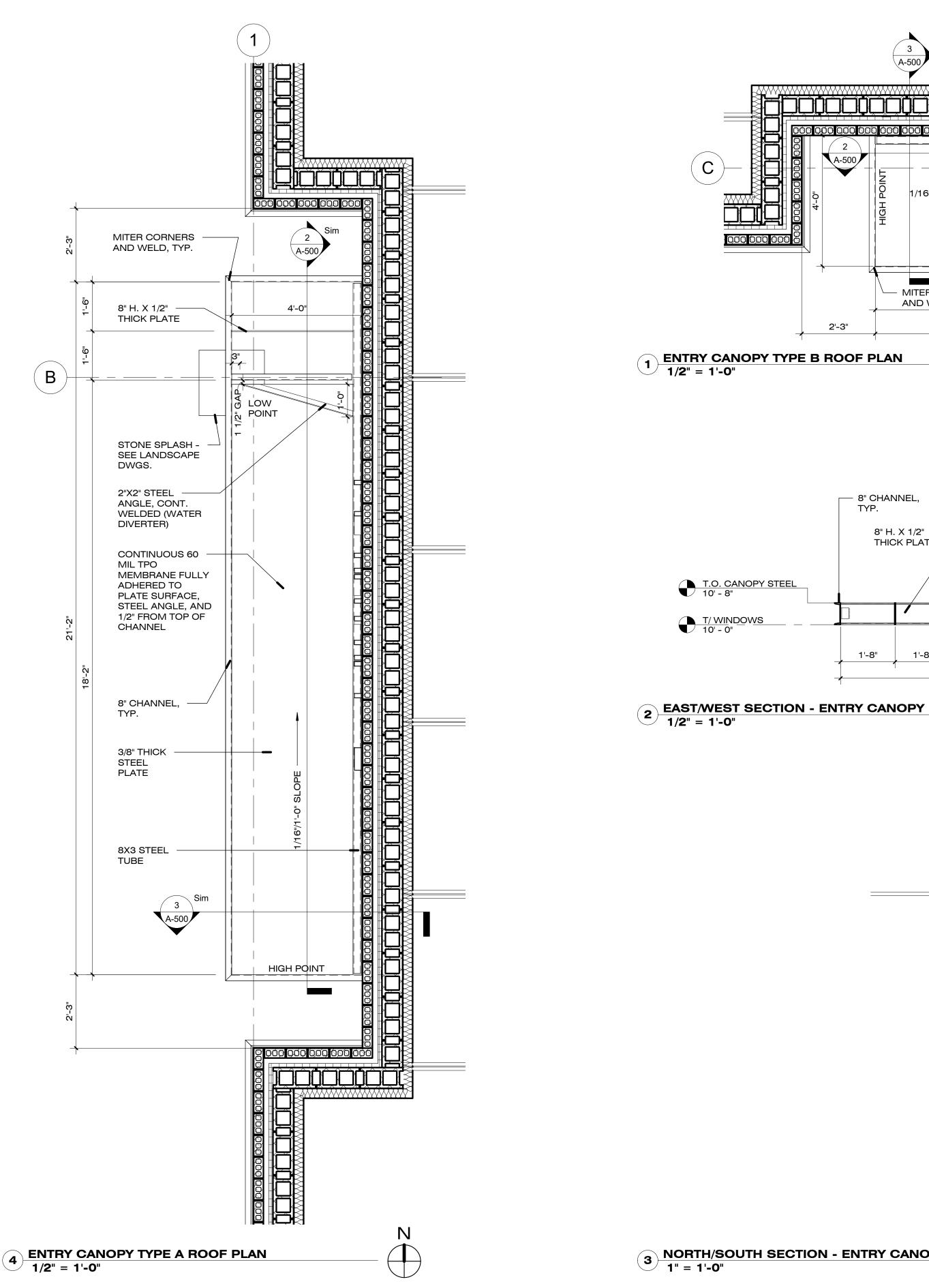
1250 WINDHAM **PARKWAY**

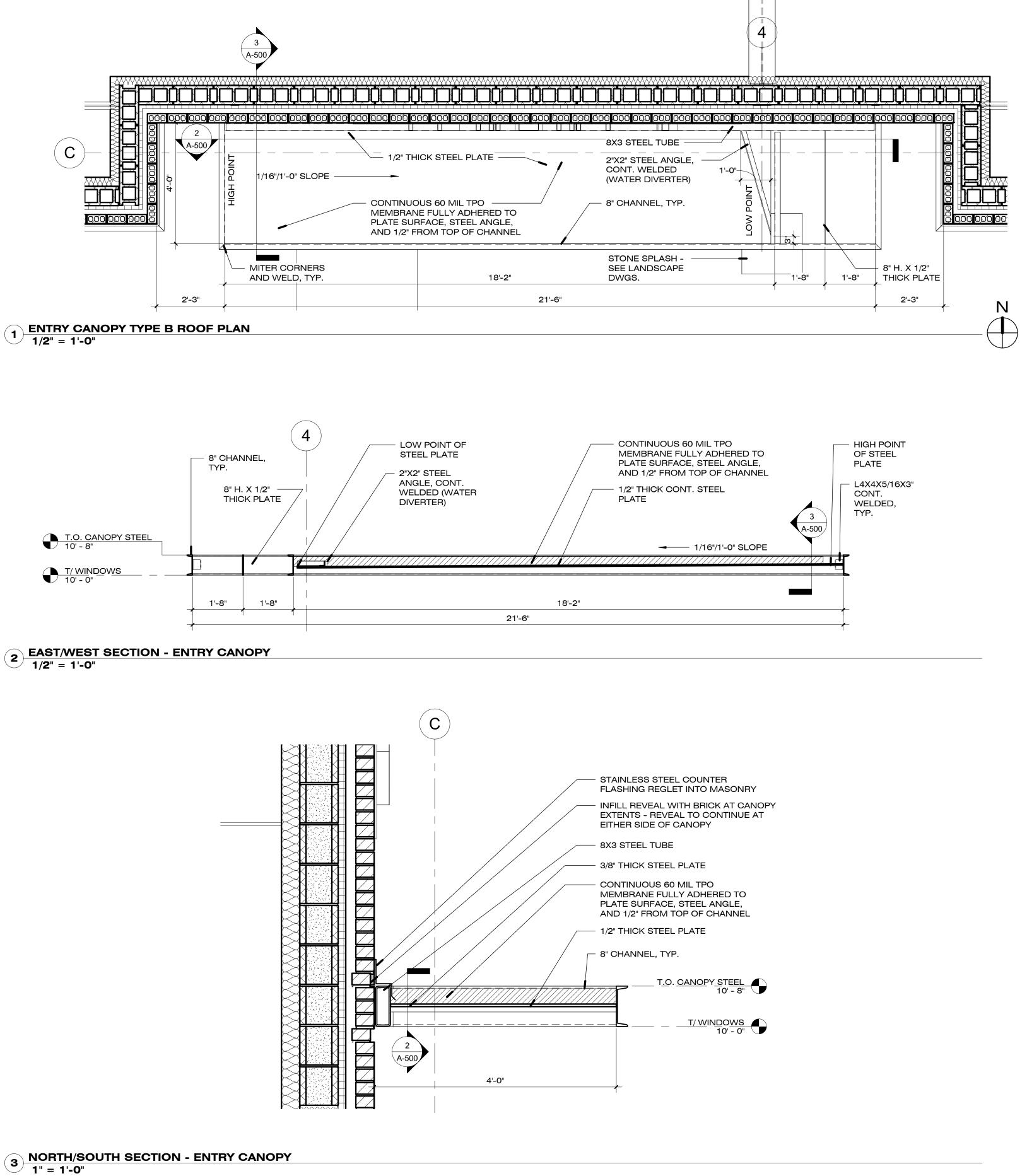
DETAILS

PROJECT NUMBER 1709 12/01/2017 DRAWN BY **CHECKED BY**

SCALE

As indicated





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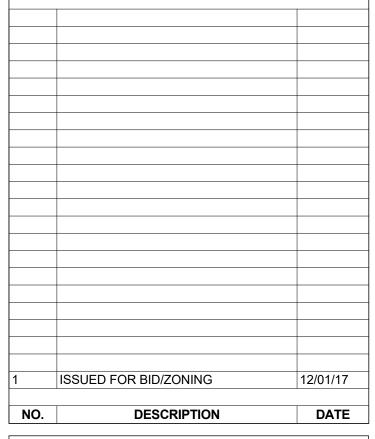
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PROFESSIONAL DESIGN FIRM #: 184.006454 EXPIRES
4/30/2019

NOTES:

- 1. ALL EXPOSED CANOPY STEEL TO BE COATED USING PT-2.
- 2. STEEL WHICH WILL BE COVERED BY EPDM MEMBRANE SHALL BE COATED WITH PRIMER.



SPECULATIVE OFFICE BUILDING

1250 WINDHAM PARKWAY

ENTRY CANOPY

PROJECT NUMBER 1709

DATE 12/01/2017

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A-500

SCALE As indicated

M9 70:49:07 PM

- MASONRY WALL HSS 4X3X5/16 POST, PAINTED, CAP BOTH ENDS, TYP. 4"X4" SPRING LOADED HINGE, TYP. (4) AT EACH JAMB, WELDED

- L1-1/2x1-1/2x1/4, COUNTERSUNK FASTENED TO HSS FRAME AT

5/4X6" TREX DECKING ALIGNED WITH FACE OF

HSS FRAME

EACH END AND 12" O.C. MAX, TYP.

5 TYPICAL JAMB DETAIL AT TRASH ENCLOSURE GATES
1 1/2" = 1'-0"

MASONRY WALL BEYOND HSS 4x3x1/4 FRAME, TYP. PAINTED - L1-1/2x1-1/2x1/4, COUNTERSUNK FASTENED TO HSS FRAME AT EACH END AND 12" O.C. MAX, TYP. PAINTED HSS 2-1/2x2x1/4 FRAME, TYP. PAINTED 5/4X6" TREX DECKING ALIGNED WITH FACE OF HSS FRAME L1-1/2x1-1/2x1/4,
 COUNTERSUNK FASTENED TO HSS FRAME AT EACH END AND 12" O.C. MAX, TYP. PAINTED HSS 4x3x1/4 FRAME, TYP. PAINTED — EXTEND HSS COLUMN TO T/ FOOTING -SEE STRUC. DWGS.

4 TYPICAL SECTION AT TRASH ENCLOSURE DOOR
1" = 1'-0"

10'-11 1/4" 11 5/8" EQ. HSS 4X3X1/4 MITRED EQ FRAME WELDED AND GROUND SMOOOTH -\A-501 PAINTED, TYP. LOCKABLE GATE LATCH HSS 4X3X5/16 POST, PAINTED, CAP BOTH ENDS, TYP. 2-1/2x2x1/4 FRAME, TYP. PAINTED (BEYOND) - 4"X4" SPRING LOADED HINGE, TYP. (4) AT EACH JAMB, WELDED - MASONRY TRASH ENCLOSURE WALL FOUNDATION AND FOOTING - SEE STRUCT. 5/4X6 TREX DECKING - CANE BOLT, EXTEND HSS COLUMN TO T/ FOOTING - SEE STRUCT.

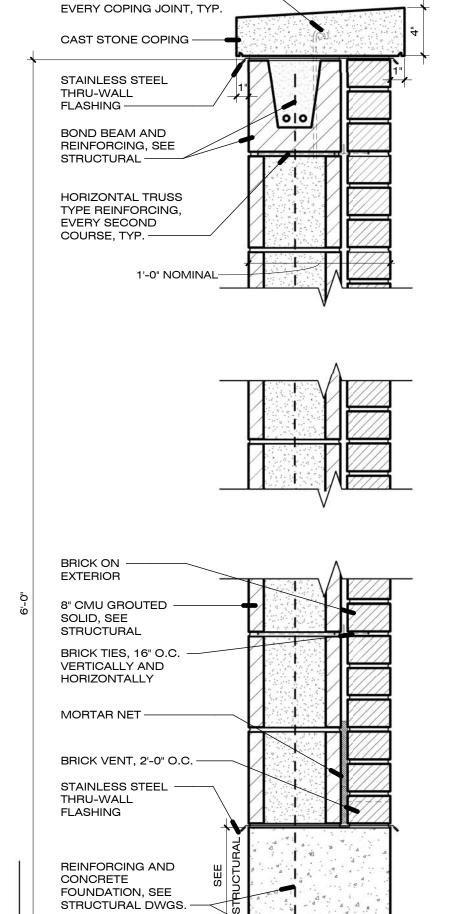
1 TRASH ENCLOSURE WALL SECTION
1 1/2" = 1'-0"

ALIGN FACE OF HSS COLUMN WITH INSIDE FACE OF TRASH ENCLOSURE WALL HSS 4x3x5/16 COLUMN W/ WELDED CAP CONCRETE SLAB, SEE CIVIL PLATE, 3/4" x 8" x 12", FULLY GROUTED UNDERNEATH — PLATE, 3/4" x 8" x 8", - (2) 1/2" DIA. THREADED RODS SPACED 5" O.C., SET IN HILTI HIT HY 200 ADHESIVE, 6" MIN. **EMBEDMENT** CONCRETE FOUNDATION, SEE STRUCTURAL

2 TRASH ENCLOSURE GATE BASEPLATE DETAIL
1 1/2" = 1'-0"

1/2" DIA. STAINLESS STEEL

DOWEL WITH J-HOOK AT



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BUILDING

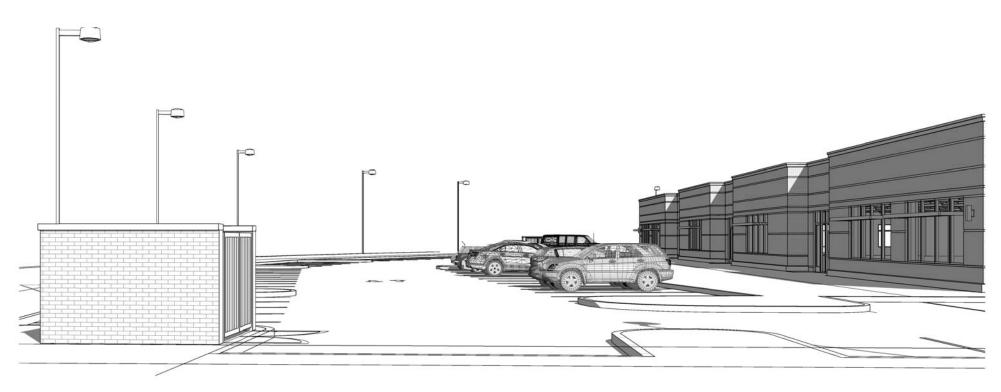
1250 WINDHAM **PARKWAY**

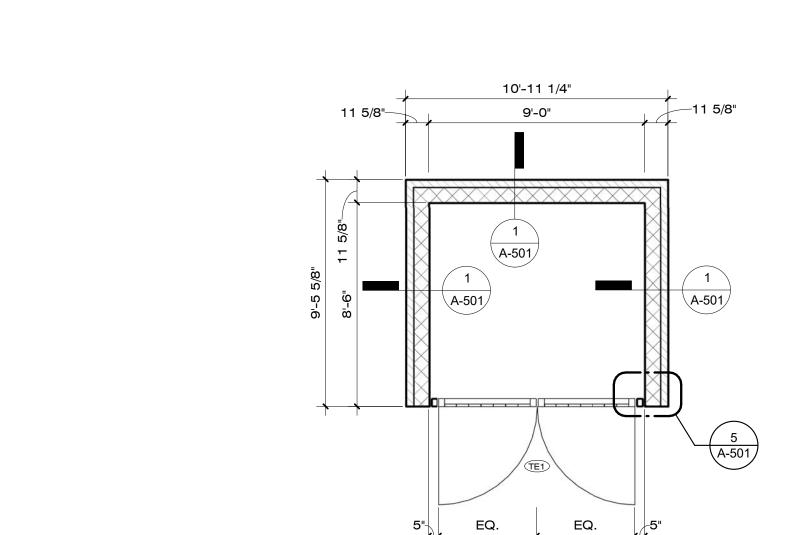
TRASH ENCLOSURE & DETAILS

1709 PROJECT NUMBER 12/01/2017

A-501

SCALE As indicated





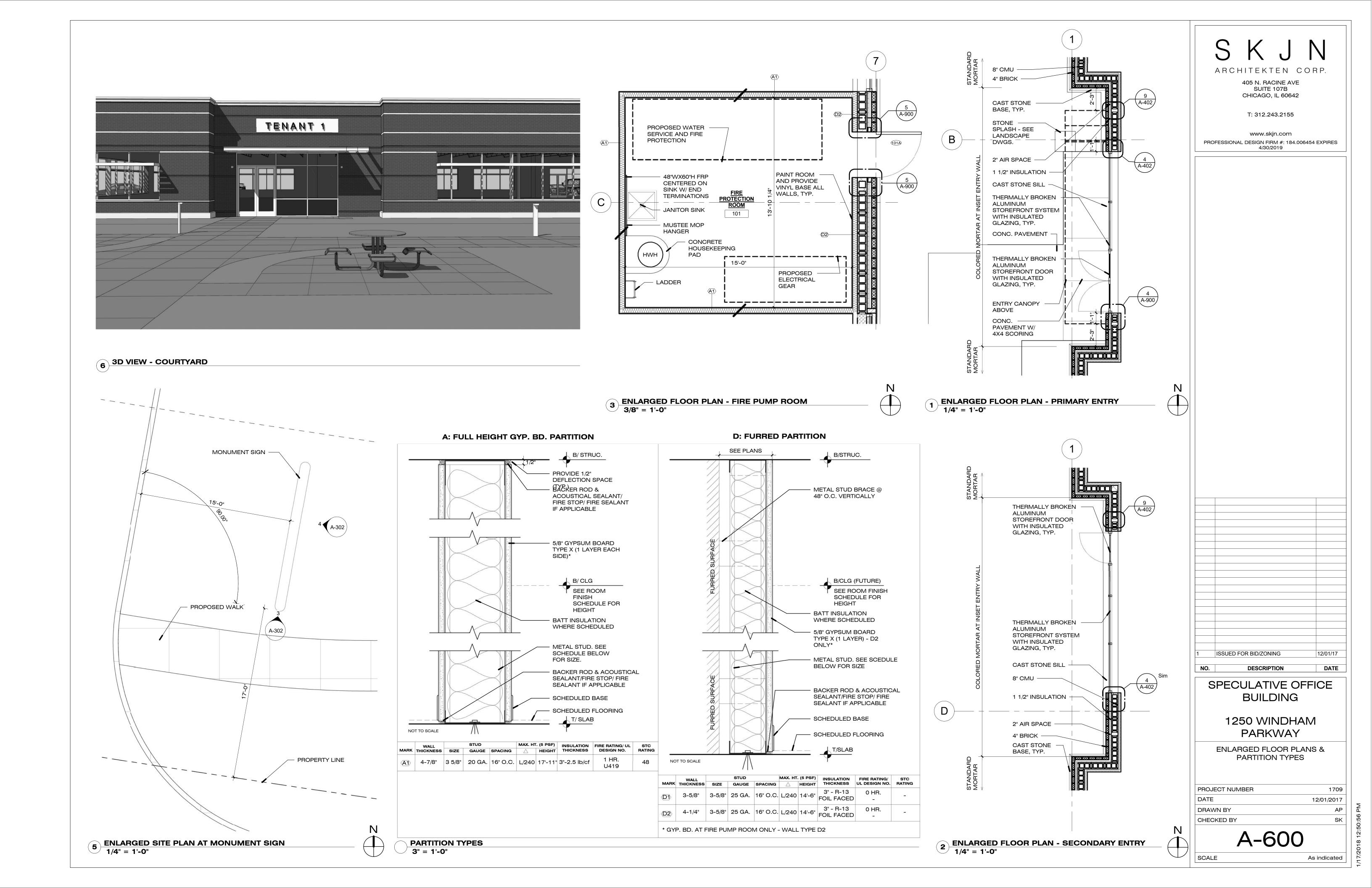
7 ENLARGED FLOOR PLAN - TRASH ENCLOSURE 1/4" = 1'-0"

8 TRASH ENCLOSURE

-4" OR GREATER APPLIED FORCE (ROOF TOP UNIT CURB LOCATION, PANEL POINT EXISTING METAL PANEL POINT DECK L 2x2x3/16 EACH SIDE OF BAR JOIST. WELD TO TOP AND BOTTOM CHORDS EXISTING BAR AT ROOF TOP UNIT CURBS, PROVIDE 2" (NOMINAL) TREATED WOOD BLOCKING PANEL POINT PANEL POINT APPLIED FORCE (HANGING LOAD, ETC.) 4" OR GREATER-

6 TYPICAL JOIST REINFORCING DETAIL FOR CONCENTRATED LOAD OFF PANEL POINT 1" = 1'-0"

3/8" = 1'-0"



		EXTERIOR MATERIAL TYPES			
MARK	MANUFACTURER	MODEL	COLOR	PATTERN/FINISH	UNIT SIZE

L								
	ALUMINUM							
	AL-1	TBD	TBD	CLEAR ANODIZED		-	ALUMINUM FRAMES WINDOWS AND ENTRY STOREFRONT	
	GLASS							
	GL-1	VITRO	SOLARBAN 60	TINTED	-	-	RIBBON WINDOW	
	GL-2	VITRO	SOLARBAN 60	CLEAR	TEMPERED	-	PRIMARY ENTRY GLASS	
	GL-3	VITRO	SOLARBAN 60	TINTED	TEMPERED		SECONDARY ENTRY GLASS	

PAINT					\neg	
	BENJAMIN MOORE	- DOOR HARD	WARE			INTERIOR BOLLARDS AND BASE PLATES
PT-1	BENJAMIN MOORE	<u>-</u>	TBD ,	EGGSHELL		HM DOOR AND FRAME
PT-2	TDQQR/HAR	DWARE STANDARDSTING	твр	HARDWARE SETS	_	CANOPY STEEL - EXTERIOR

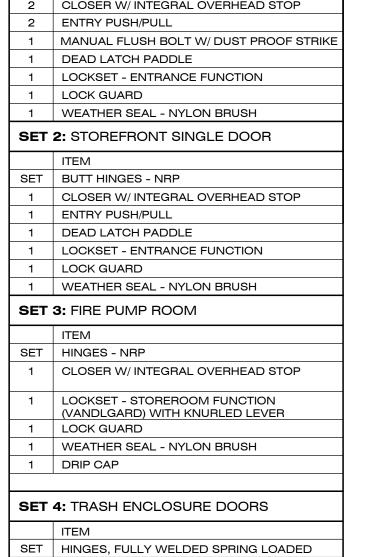
D	OOR STANDARDS
٠.	ALL DOORS SHALL BE MANUFACTURED OR FIELD CUT TO CLEAR FLOOR FINISHES.
	ALL EXTERIOR DOORS SHALL BE INSULATED. ALL EXTERIOR DOORS AND FRAMES TO BE GALVANIZED.
Н	ARDWARE STANDARDS
1.	ONLY BASIC ITEMS ARE SPECIFIED. HARDWARE SUPPLIERS SHALL FURNISH ALL ITEMS NECESSARY FOR COMPLETE FUNCTIONAL INSTALLATION.
2.	HARDWARE IDENTIFIED BUT NOT SPECIFIED SHALL BE PROVIDED AS CONSISTENT WITH GRADE OF OTHER ITEMS ON THE SAME DOOR.
3.	ALL HARDWARE FINISHES SHALL BE SATIN CHROME US26D UNLESS NOTED OTHERWISE.
4.	ALL HARDWARE SHALL HAVE LEVER HANDLES UNLESS NOTED OTHERWISE.
5.	CLOSER FORCE 8.5 LB. EXTERIOR DOORS, 5 LB INTERIOR DOORS
6.	MASTER KEY ALL LOCKSETS
7.	MIN. 3 SILENCERS PER DOOR.
8.	HINGES FOR DOORS WITH CLOSER SHALL BE BALL BEARING TYPE.

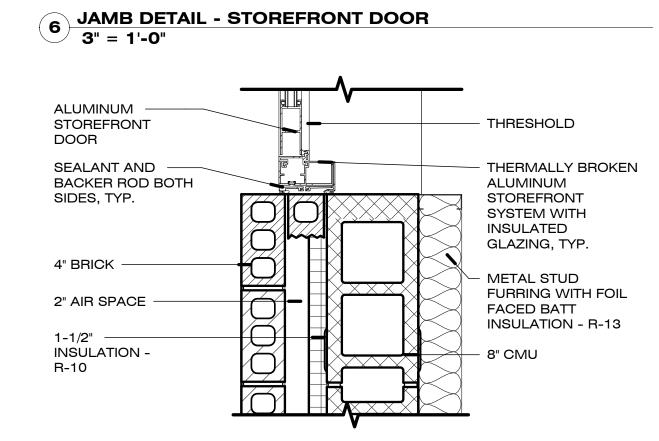
6. MASTER KEY ALL LOCKSETS					
7. MIN. 3 SILENCERS PER DOOR.					
8. HINGES FOR DOORS WITH CLOSER SHALL BE BALL BEARING TYPE.					
HINGES FOR EXTERIOR DOO REMOVABLE PINS.	RS AND OUTSWINGING INTERIOR DOORS SHALL HAVE NON-				
MANUFACTURER STAND	ARDS				
ITEM	MANUFACTURER / MODEL				
CLOSERS	NORTON 7500 SERIES				
DEAD LATCH PADDLE	ADAMS RITE MFG. CO. 4590				
FLUSH BOLT	IVES FB458 AND DP1				
KICKPLATES	HAGER 109 S - US32D				
LOCKSETS / LATCHSETS	SCHLAGE "ND" SERIES, ATHENS LEVER				
LOCK GUARD	IVES LG11				
OVERHEAD STOPS	GLYNN JOHNSON 100 SERIES CONCEALED				
PIVOT SETS	RIXSON MODEL 370				
PUSH / PULLS	ROCKWOOD 47-1 / BF158				
ROLLER LATCHES IVES RL36					
WALL STOPS GLYNN JOHNSON 50C					
WEATHER SEAL	PEMKO - NYLON BRUSH GASKETS				

	ITEM				
SET	BUTT HINGES - NRP				
2	CLOSER W/ INTEGRAL OVERHEAD STOP				
2	ENTRY PUSH/PULL				
1	MANUAL FLUSH BOLT W/ DUST PROOF STRIKE				
1	DEAD LATCH PADDLE				
1	LOCKSET - ENTRANCE FUNCTION				
1	LOCK GUARD				
1	WEATHER SEAL - NYLON BRUSH				
SET	2: STOREFRONT SINGLE DOOR				
	ITEM				
SET	BUTT HINGES - NRP				
1	CLOSER W/ INTEGRAL OVERHEAD STOP				
1	ENTRY PUSH/PULL				
1	DEAD LATCH PADDLE				
1	LOCKSET - ENTRANCE FUNCTION				
1	LOCK GUARD				
1	WEATHER SEAL - NYLON BRUSH				
SET	3: FIRE PUMP ROOM				
	ITEM				
SET	HINGES - NRP				
1	CLOSER W/ INTEGRAL OVERHEAD STOP				
1	LOCKSET - STOREROOM FUNCTION (VANDLGARD) WITH KNURLED LEVER				
1	LOCK GUARD				
1	WEATHER SEAL - NYLON BRUSH				
1	DRIP CAP				
SET	4: TRASH ENCLOSURE DOORS				
ITEM					
SET	HINGES, FULLY WELDED SPRING LOADED				

1 LOCKABLE GATE LATCH

SET 1: STOREFRONT DOUBLE DOOR





THRESHOLD BELOW

WEATHER SEAL GASKET

BY DOOR/STOREFRONT

THERMALLY BROKEN

1" INSULATED GLAZING UNIT

ALUMINUM STOREFRONT

COMBINATION MULLION AND

THERMALLY BROKEN 1 3/4" ALUM.

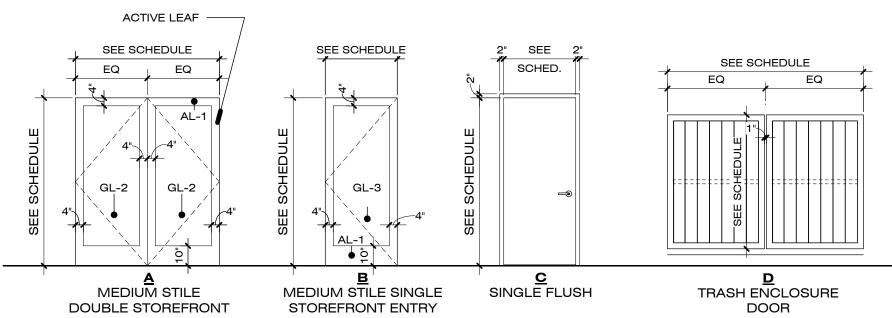
MEDIUM STILE STOREFRONT ENTRANCE BY STOREFRONT

MANUFACTURER

SIDE JAMB

MANUFACTURER

COMMENTS





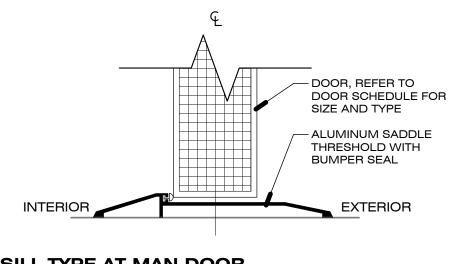
HARDWARE SETS

/ **1/4**" = 1'-0"



D.O.

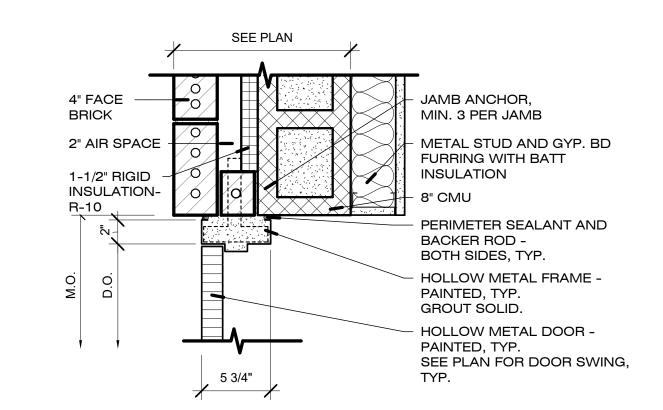
3 1/2"



2 SILL TYPE AT MAN DOOR 6" = 1'**-**0"

4" FACE BRICK VAPOR BARRIER METAL STUD AND GYP. BD. FURRING WITH BATT 2" AIR SPACE INSULATION MORTAR NET - 1 1/2" RIGID INSULATION STAINLESS STEEL - 8" CMU FLASHING BOND BEAM - SEE LINTEL - SEE STRUCT. STRUCT. BATT INSULATION WEEP VENTS PERIMETER SEALANT @ 24" O.C. TYP. AND BACKER ROD -BOTH SIDES, TYP. **HOLLOW METAL FRAME -**PAINTED, TYP. GROUT SOLID. HOLLOW METAL DOOR -PAINTED, TYP. SEE PLAN FOR DOOR SWING, TYP. 2" 5 3/4"

7 HEAD DETAIL - FIRE PUMP ROOM 1 1/2" = 1'-0"



JAMB DETAIL - FIRE PUMP ROOM 1 1/2" = 1'-0"

COMBINATION MULLION AND HEAD WEATHER SEAL GASKET BY DOOR/STOREFRONT MANUFACTURER THERMALLY BROKEN 1-3/4" ALUM. MEDIUM STILE **~3/32**" STOREFRONT ENTRANCE BY STOREFRONT MANUFACTURER 1" INSULATED GLAZING

3 HEAD DETAIL - STOREFRONT DOOR 3" = 1'-0"

UNIT

- DOOR, REFER TO DOOR SCHEDULE FOR SIZE AND TYPE - ALUMINUM SADDLE THRESHOLD WITH INTERIOR BUMPER SEAL AND SQUARE EDGE AT **FUTURE TILE** CERAMIC TILE

SILL TYPE AT VESTIBULE EXTERIOR DOOR · 6" = 1'-0"

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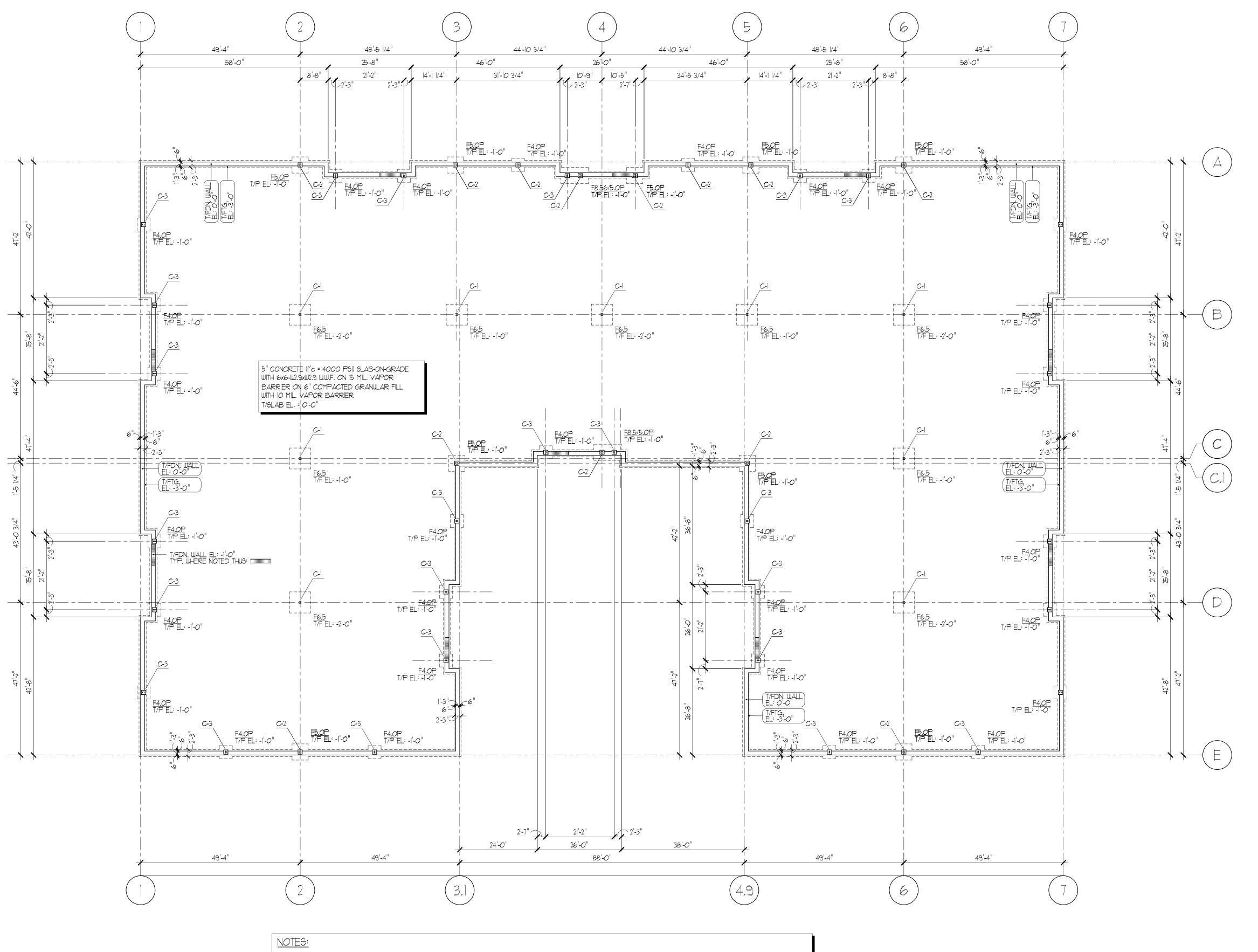
1250 WINDHAM **PARKWAY**

DOOR SCHEDULE & DOOR DETAILS

PROJECT NUMBER 1709 12/01/2017 DRAWN BY CHECKED BY

A-900

SCALE As indicated



NORTH FOUNDATION PLAN

SIDO SCALE: 1/6" = 1'-0"

1, SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT INDICATED.

2. CI: W8x3| COLUMN 34"x|4"x|4" BASE PLATE W/ (4) 34" & ANCHOR BOLTS 34"x|1"x|6" CAP PLATE W/ (4) 34" & A-325 BOLTS

C2: H66 8x8x3% COLUMN 34"x14"x14" BASE PLATE W/ (4) 34" ¢ ANCHOR BOLTS

CI: HSS 8x4x36 COLUMN 34 "x|4"x|2" BASE PLATE W/ (4) 34 " ϕ ANCHOR BOLTS 34 " CAP PLATE

34" CAP PLATE

3. REINFORCE ALL MASONRY WALLS WITH #5 VERTICAL BARS @ 32" O.C. FULL HEIGHT IN CMU CELLS, GROUT CELLS 100% AT BARS, PROVIDE ADDITIONAL 2-#5 VERICAL BARS (FULL HEIGHT) AT 8" O.C. IN 3 CMU CELLS ADJACENT TO ALL WINDOW OPENINGS.

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GREETIS ASSOCIATES

STRUCTURAL ENGINEERS, P.C. 50 N. BROCKWAY ST. PALATINE IL 60067 847/991-4204 greetisassociates@ameritech.net

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SPECULATIVE OFFICE BUILDING

1250 WINDHAM **PARKWAY**

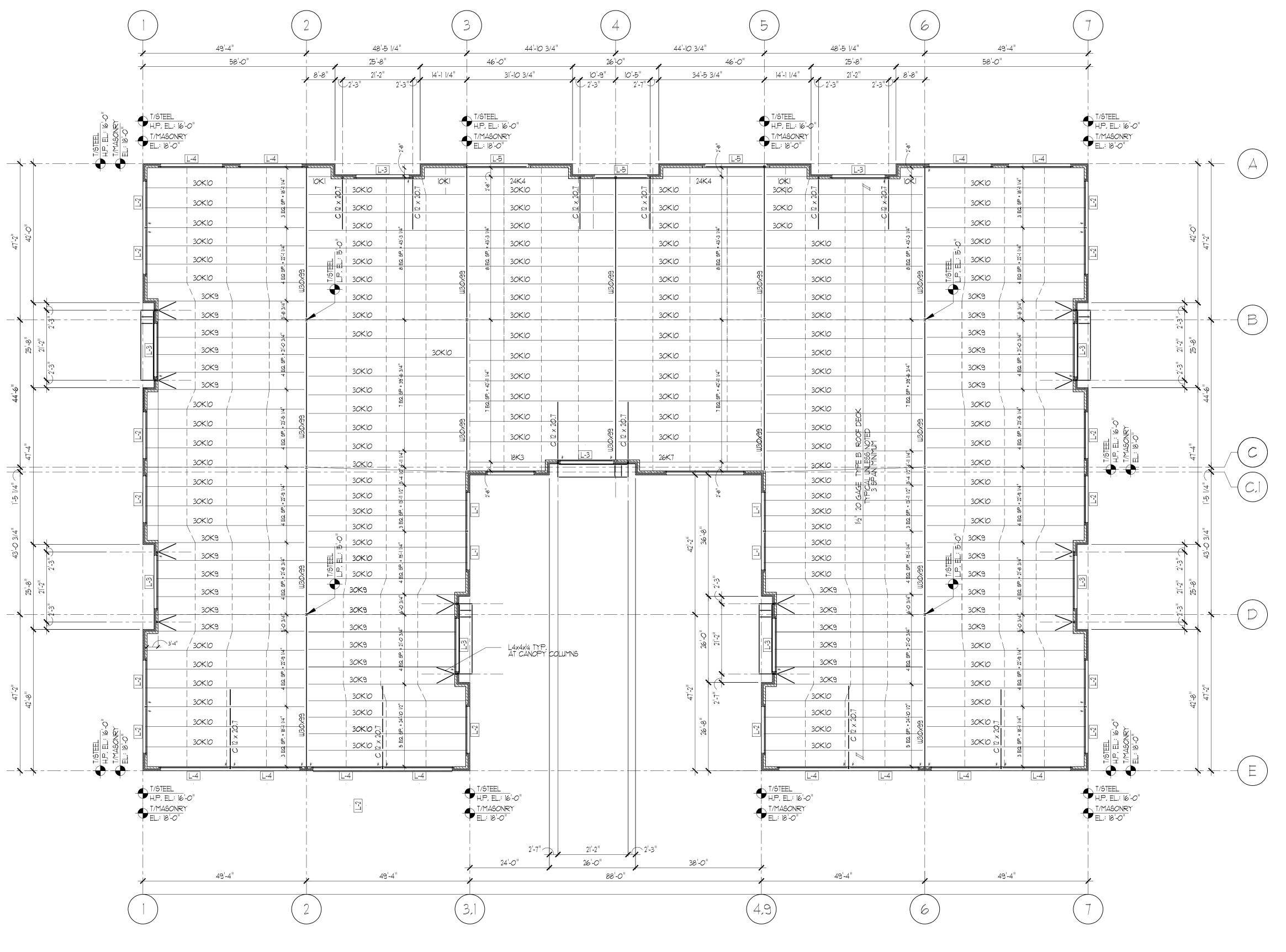
FOUNDATION PLAN

170
12/01/20
JF
JF

S-100

SCALE

½16" = 1'-0"



I. ALL STEEL WIDEFLANGE SHAPES TO CONFORM TO ASTM A992 [Fy = 50 ksi] ALL STEEL TUBE COLUMNS TO CONFORM TO ASTM A 500 GRADE B

- [Fy = 46 ksi] ALL STEEL PLATES, ANGLES AND CHANNELS TO CONFORM TO ASTM A36 [Fy = 36 ksi]
- 2. TOP OF STEEL ELEVATION REFERS TO UNDERSIDE OF METAL DECK TYP. 3. FASTEN ROOF DECK TO SUPPORTING STRUCTURE WITH 5/8" DIAMETER
- PUDDLE WELDS + #10 TEK SCREWS, FASTENER LAYOUT TO CONFORM TO 36/5 PATTERN WITH 2 SIDELAP FASTENERS PER SPAN PANEL TYPICAL UNLESS NOTED.
- 4. REINFORCE ALL MASONRY WALLS WITH #5 VERTICAL BARS @ 32" O.C. FULL HEIGHT IN CMU CELLS, GROUT CELLS 100% AT BARS, PROVIDE ADDITIONAL 2-#5 VERICAL BARS (FULL HEIGHT) AT 8" O.C. IN 3 CMU CELLS ADJACENT TO ALL WINDOW OPENINGS.
- 5. PROVIDE SUPPLEMENTAL FRAMING AT ROOF DRAIN HEADS PER E4/5-201. SEE ARCHITECTURAL DRAWINGS FOR DRAIN HEAD LOCATIONS.

ARCHITEKTEN CORP. 405 N. RACINE AVE SUITE 107B CHICAGO, IL 60642

T: 312.243.2155

www.skjn.com PROFESSIONAL DESIGN FIRM #: 184.006454 EXPIRES 4/30/2019

GREETIS ASSOCIATES STRUCTURAL ENGINEERS, P.C. 50 N. BROCKWAY ST. PALATINE IL 60067 847/991-4204 greetisassociates@ameritech.net

ISSUED FOR BID / ZONING 12.01.17

> 1250 WINDHAM **PARKWAY**

SPECULATIVE OFFICE

BUILDING

DESCRIPTION

NO.

DATE

½16" = 1'-0"

ROOF FRAMING PLAN

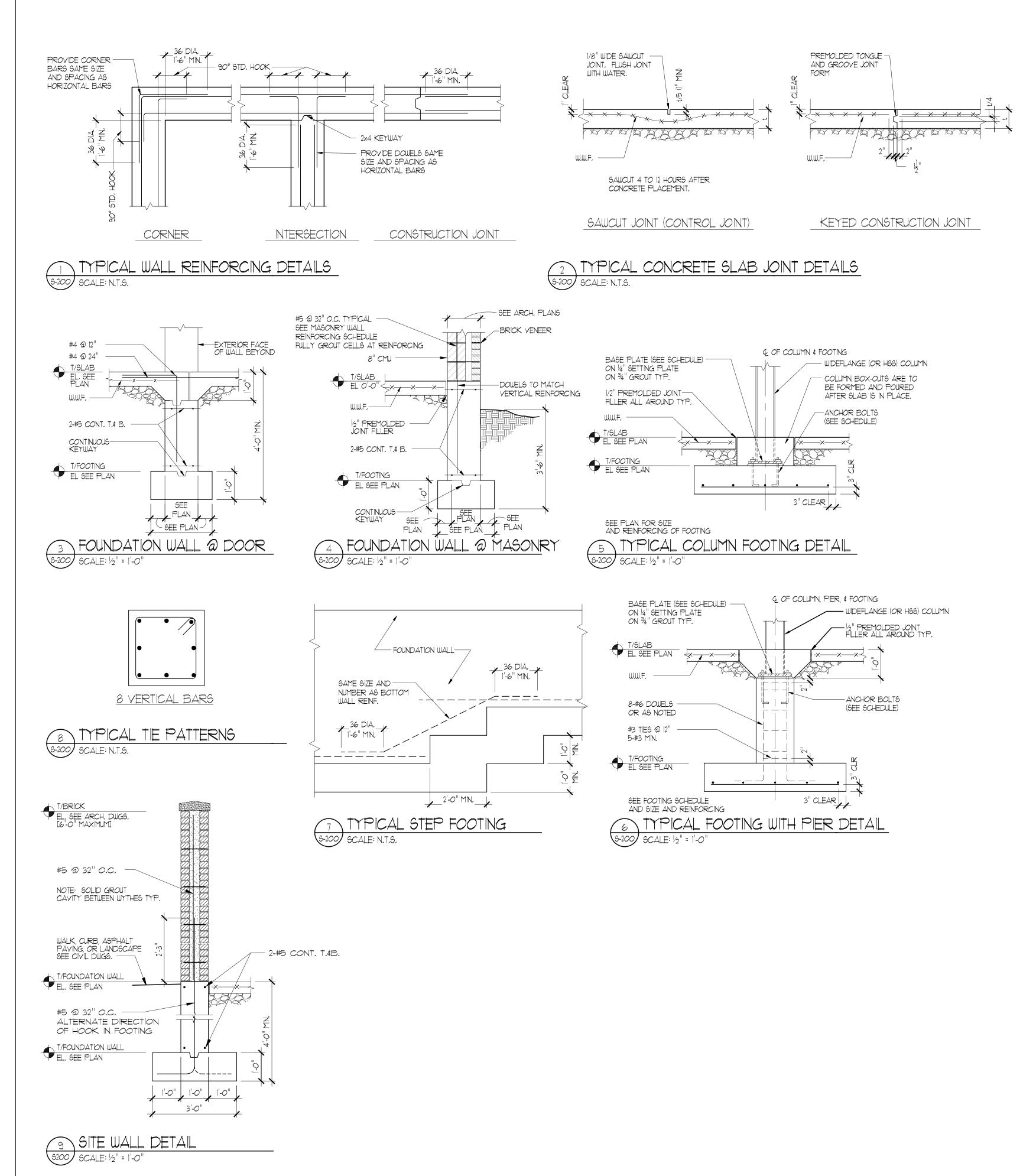
PROJECT NUMBER 1709

DATE 12/01/2017 DRAWN BY JPG CHECKED BY JPG

S-101

SCALE

I NORTH ROOF FRAMING PLAN



GENERAL STRUCTURAL NOTES

International Building Code (IBC) 2012 American Institute of Steel Construction (AISC) American Concrete Institute (ACI) (318-98) American Welding Society (AWS)

20 psf 30 | psf (min)* * plus snow drifting

WIND: V36 = 90 MPH Exposure B

ALLOWABLE SOIL BEARING PRESSURE: Allowable soil bearing = 3000 psf (assumed) for all spread and continuous footing foundations. All allowable bearing capacities shall be field verified by a qualified representative of the Geotechnical

EXCAYATION AND BACKFILL:

Bear foundations at elevations indicated on the drawings, ASTM A992 (Fy=50ksi); all wideflange shapes, adequate bearing characteristics and capacities. provide safe, stable conditions. OSHA regulations regarding excavation side slopes shall be followed.

All soils that become softened or loosened during construction shall be removed down to an approved undisturbed soil surface prior to the placement of foundation concrete or structural fill.

slabs shall be free draining granular material (IDOT Fill materials for all slab areas shall be placed in layers not exceeding 9" and compacted to '95% minimum" density in accordance with ASTM D1557, until final

Foundation walls which are to retain soil on one side shall attain full design strength and shall be braced with permanent construction at their top and bottom before any backfilling operations begin. Retaining walls shall be backfilled only after having reached design strength or while being temporarily braced until final curing of its final support. Provide temporary sheeting as required if the nature of the material does not allow for gradual sloping to the excavation,

f'c = 3000 psi @ 28 days (4 1/2 bag min. cement content): all concrete not noted otherwise, f'c = 4000 psi @ 28 days (5 1/2 bag min, cement content): all slabs-on-grade. All concrete shall be designed, mixed and placed in accordance with ACI recommendations and

Contractor shall provide the Architect, in sufficient time to allow for review, copies of the mix design and shall not proceed with its use without

concrete subject to freeze-thaw shall be air

entrained, 6% ±1%. Concrete Contractor shall not pour concrete in adverse weather conditions or when such is forecast for the time period following the pour, unless proper curing and protection is provided continuously until concrete develops its design strength. Unless otherwise noted, principal reinforcement shall

(a) Surfaces not formed: (b) Formed surfaces in contact with soil: 2 inch or water, or exposed to weather (c) Formed surfaces not in contact with

soil or water, or exposed to weather: 3/4 inch All concrete for slabs-on-grade shall have a maximum water/cement ratio of .45.

REINFORCING AND WELDED WIRE FABRIC: ASTM A615-87, Grade 60: place to ACI clearances

GOVERNING CODES & SPECIFICATIONS:

ASTM A185; for all welded wire fabric (WWF), All reinforcing shall be placed to clearances per the ACI and in accordance with the recommendations of the ACI and the Concrete Reinforcing Steel Institute (CRSI). Detail all W.W.F. in accordance with the latest edition

unless detailed otherwise.

Practice (WRI Manual AP-100),

concrete placement.

detailed otherwise.

which may impair bond.

horizontal reinforcing detailed.

Extend 2'-0" beyond opening edge.

of the Welded Wire Fabric Manual of Standard

Provide bar supports and other accessories in

accordance with CRSI recommendations and

standard practices and, as necessary, to hold

reinforcing in proper position during concreting.

All W.W.F. shall be supported in position prior to

Minimum bar laps shall be 36 bar diameters unless

Place "L" bars at all corners and wall intersections.

Place 2 #5 additional bars all around wall openings.

Hold all W.W.F. I" clear of all construction joints.

within the past 12 months, to weld in the required

positions, in accordance with AWS Standards and

accordance with AISC Specifications latest

edition, and with the AISC Code of Standard

All steel shall be fabricated, detailed and erected in

Field cutting of structural steel shall not be permitted.

carrying either the reaction force when indicated or

Fabricator shall select beam connections capable of

one-half of the total uniform load for the given

size, span, and grade of the beam, as tabulated in

the AISC tables for allowable loads. Use 80% of

All connections to tube columns shall be thru-plates

All columns shall be set upon non-shrink arout with

Contractor shall verify locations and conditions of all

anchor bolts set for his use. He shall immediately

discrepancies or existence of conditions of the

All beams and lintels shall bear a minumum of 8" on

either side of member centerline, unless detailed

All lintel beams shall be anchored into masonry with L3

100% solid masonry, at least 16" below and 16"

bolts which will not allow him to properly erect the

notify the Architect of any dimensional

minimum strength of 9000 psi @ 28 days, using

setting plates, 1/4" thick and same size as base

the total uniform load for composite beams.

recommendations.

unless otherwise noted.

and/or noted otherwise.

Practice.

Size and spacing shall match those of the

Reinforcing shall be cleaned of all oil, scale, rust, etc.,

Latest supplements and revisions, thereto.

DESIGN LOADINGS:

ROOF: Dead Load Live Load

SEISMIC:

Reinforcing shop drawings shall show clearances to all SLAB AND WALL CONSTRUCTION JOINTS: Floor slabs shall be placed with joints spaced at 20'-0" maximum if not shown otherwise. Locate joints on column center lines, and equally spaced between.

Site preparation and foundation construction shall be observed by a representative of the Geotechnical Construction joints shall be keyed at middlepth. Engineer,

STRUCTURAL STEEL:

or deeper as necessary to reach subgrade materials with ASTM A36; all angles and plates. ASTM A325 or ASTM A490: 3/4" (minimum) bolts. All excavation slopes shall be constructed such that they for all connections, ASTM A36, anchor bolts, embedded 12" plus 6" hook, unless detailed otherwise,

ASTM A500 Grade B: for all Structural Tubing (TS) Fy ASTM A501 or ASTM A53, Types E or S, Grade B; for all structural pipe, fy=36 ksi." All backfill materials along walls and under building ASTM E70: all welding shall be by welders qualified

subgrade is attained.

requirements and standards.

Architect comment, Calcium Chloride or admixtures containing same shall not be permitted in any concrete. All concrete shall contain plasticizing admixture and all

x 3" x 1/4" each side of web, typical unless detailed All lintels composed of 2 or more shapes shall be welded into one unit prior to installation, Verify lengths and elevations of all lintels with the Architectural and Mechanical Drawings.

MARK

F4.0P

F5.0P

Provide lintels for all openings whether or not shown on the Structural Drawings, Advise Architect of these have the following concrete protection: openings to allow for review of lintel member size. All steel sections which are located within masonry walls shall have masonry channel slots welded to the appropriate flanges and webs, for attachment, by the mason, of triangle anchors, to be laid up with the

> and Structural Drawings. Structural Steel fabricator shall provide all required steel therein by reference. for any roof openings whether shown or not on the the Structural Drawings. Coordinate all requirements with the pertinent trades,

FOOTING

FOOTING SIZE

1'-0" x 4'-0" x 1'-0"

5'-0" x 5'-0" x 1'-2'"

5'-6" x 6'-6" x 1'-6"

F8.5/5.0P 8'-6" x 5'-0" x 1'-2"

masonry, as detailed for spacing on the Architectural

Coordinate all requirements with the pertinent trades. All steel shall have one coat of light gray rust inhibitive primer paint.

FTG. REINFORCING

4-\$5 E.W.

5-#5 E.W.

4-\$5 E.W.

PIER SIZE

1'-6" x 1'-6"

|'-6" x |'-6"

1'-8" x 6'-0"

STEEL JOISTS

Steel joists for this project are K Series, in accordance with the Steel Joist Institute (SJI) Standards Standards for design, manufacture and erection. Certification of compliance with SJI Standards shall be noted on the Shop Drawings.

Provide loose ceiling extensions for all joists in areas where ceilings are noted. Anchor joists to steel supports in accordance with SJI and as detailed.

METAL ROOF DECK

Deck to be 1-1/2" deck with structural properties corresponding to deck type noted on the drawings. Deck shall be designed, fabricated, and installed in accordance with the requirements of the Steel

Deck Institute (SDI). Deck shall provide 3 span minimum coverage. Openings to 12" perpendicular to the deck span, and whether shown or not on the Architectural and/or Structural Drawings, may be cut into the deck without reinforcing after review with the Architect/Engineer to insure continued integrity of the deck,

Openings greater then 12" perpendicular to the deck span, and whether shown or not on the Architectural and/or Structural Drawings shall be reinforced with additional framing members, spanning between the main deck support members. Additional framing members shall be provided and installed by the trade requiring the opening and shall submit sizes and arrangement of the additional members, to the Architect, for his review before fabrication of members. Coordinate location of openings not shown on the drawings and submit for the Architect/Engineer's review, before cutting of the deck.

All concrete masonry shall be manufactured and placed in accordance with ACI 531.1 "Specifications For Concrete Masonry Construction¹¹, and ACI 531 "Building Code Řequirements For Concrete Masonry Structures".

All masonry walls which bypass steel members, shall be anchored as detailed.

Grouted bond beams and lintel blocks shall be filled 100% solid with Portland Cement Masonry Grout, conforming to ASTM C476. Filling with mortar is not acceptable.

All bearings of lintels and other members shall be filled 100% solid, at least 8" below and 12" either side of Masonry shall be braced adequately to withstand a wind

load of 20 psf minimum during construction. All concrete masonry shall have a minimum compressive strength (f'm) of 1500 psi, determined by testing of masonry prisms or a function of individual masonry units, mortar and grout in accordance

Mason contractor shall provide triangular anchors for anchor rods welded to the structural steel. All walls shall have mechanical metal bonding per Architect's details and the Project Specifications. Vertical reinforcing in masonry cores shall be held in place with bar positioners. Grouting of cores where required shall be by high lift method.

COORDINATION:

All dimensions shown on the Structural Drawings shall be checked against the Architectural, and other drawings, by the General Contractor, and any discrepancies are to be reported immediately to the

Contractor shall coordinate all pitches and depressions in the floor slabs, and openings in the foundation walls, with the pertinent trades, and shall review locations of such openings as they may relate to the weakening of the Structure. Sleeves for openings shall be provided by the relevant

Shop Drawings shall be submitted for review by the Structural Engineer, of all structural items, before fabrications. Should it become evident that the Shop Drawings are being submitted with the appearance of not having been properly checked by the detailer prior to the submission, they will be returned by the Engineer, to the Detailer, without review, and the transmittal will be classified as a "non-transmittal." The information contained on the Structural Drawings is, in itself, incomplete and void unless used in conjunction with all of the Contract Documents and all Specifications, trade practices, or applicable standards, codes, etc., incorporated

Use of these documents as shop drawings, in whole or in part, is prohibited, and will be cause for the rejection of the entire submittal.

SCHEDULE

REMARKS

PIER REINFORCING

#3 TIES @ 12" O.C. 3-#6 VERT. #3 TIES @ 12" O.C.

10-#6 VERT. #3 TIES @ 12" O.C.

CHICAGO, IL 60642

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ISSUED FOR BID / ZONING 12.01.17 DESCRIPTION DATE NO. SPECULATIVE OFFICE BUILDING

1250 WINDHAM PARKWAY

GENERAL NOTES

DETAILS SCHEDULES

S-200	
CHECKED BY	JPG
DRAWN BY	JPG
DATE	12/01/2017
PROJECT NUMBER	1709

5-200 SCALE AS NOTED

