

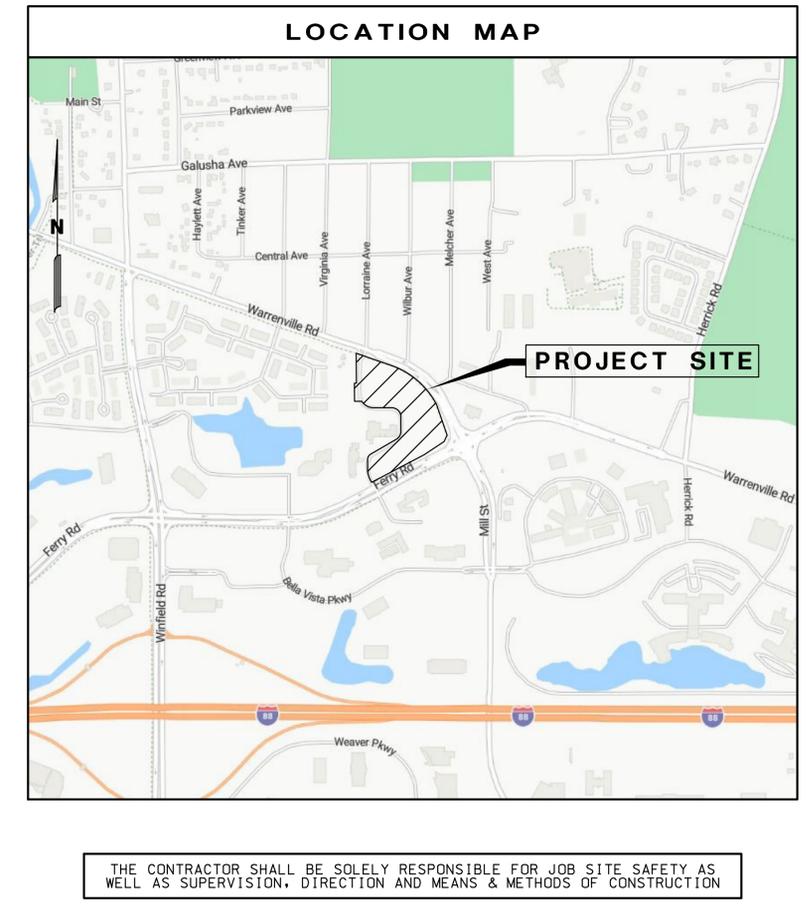
FINAL ENGINEERING PLANS

CANTERA POINT

WARRENVILLE, ILLINOIS

LEGEND	
EXISTING	PROPOSED
SANITARY SEWER 8" PVC	8" PVC
FORCE MAIN FM	FM
STORM SEWER 12" RCP	12" RCP
UNDERDRAIN UD	UD
MANHOLE	⊙
CATCH BASIN	⊙
INLET	⊙
CLEANOUT	⊙
WATER MAIN WM	WM
VALVE VAULT	⊙
VALVE BOX	⊙
FIRE HYDRANT	⊙
FLARED END SECTION	⊙
COMBINED SEWER	⊙
STREET LIGHT/PARKING LOT LIGHT	⊙
POWER POLE	⊙
STREET SIGN	⊙
FENCE	⊙
GAS MAIN	⊙
OVERHEAD LINE OH	OH
TELEPHONE LINE	⊙
ELECTRIC LINE	⊙
CABLE TV LINE CATV	CATV
HIGH WATER LEVEL HWL XXX	HWL XXX
NORMAL WATER LEVEL NWL XXX	NWL XXX
CONTOUR LINE XXX.XX	XXX.XX
TOP OF CURB ELEVATION TC XXX.XX	TC XXX.XX
TOP OF DEPRESSED CURB TDC XXX.XX	TDC XXX.XX
PAVEMENT ELEVATION P XXX.XX	P XXX.XX
SPOT ELEVATION XXX.XX	XXX.XX
FINISHED FLOOR ELEVATION FF + XXX.XX	FF + XXX.XX
TOP OF FOUNDATION TF + XXX.XX	TF + XXX.XX
GRADE AT FOUNDATION GF + XXX.XX	GF + XXX.XX
HIGH OR LOW POINT	⊙
OVERLAND FLOOD ROUTE	⊙
PAVEMENT FLOW DIRECTION	→
SWALE FLOW DIRECTION	→
DEPRESSED CURB AND GUTTER	→
REVERSE CURB AND GUTTER	→

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ABBREVIATIONS			
AC	ACRE	HWL	HIGH WATER ELEVATION
BC	BACK OF CURB	INL	INLET
BTM	BOTTOM	INV	INVERT
CB	CATCH BASIN	LF	LINEAL FEET/FOOT
CFS	CUBIC FEET PER SECOND	LP	LIGHT POLE
CY	CUBIC YARD	LT	LEFT
DIA	DIAMETER	L/W	LOWEST GRADE ADJACENT TO RETAINING WALL
DIM	DUCTILE IRON WATER MAIN ELEVATION	MAX	MAXIMUM
EL	ELEVATION	MH	STORM MANHOLE
EP	EDGE OF PAVEMENT	MIN	MINIMUM
FF	FINISHED FLOOR	NWL	NORMAL WATER ELEVATION
FES	FLARED END SECTION	OCS	OUTLET CONTROL STRUCTURE
FT	FOOT/FEET	P	PAVEMENT ELEVATION
G	GUTTER ELEVATION	PVC	POLYVINYL CHLORIDE PIPE
GF	GRADE AT FOUNDATION	R	RADIUS
GR	GRADE RING ELEVATION	RCP	REINFORCED CONCRETE PIPE
HDPE	HIGH DENSITY POLYETHYLENE PIPE	RIM	RIM ELEVATION
HYD	FIRE HYDRANT	RT	RIGHT
HMA	HOT MIX ASPHALT	ROW	RIGHT OF WAY
SAN	SANITARY SEWER	SMH	SANITARY MANHOLE
SMH	SANITARY MANHOLE	STA	STATION
STA	STATION	STM	STORM SEWER
STM	STORM SEWER	SY	SQUARE YARD
SY	SQUARE YARD	SWPP	STORMWATER POLLUTION PREVENTION PLAN
SWPP	STORMWATER POLLUTION PREVENTION PLAN	TDC	TOP OF DEPRESSED CURB
TDC	TOP OF DEPRESSED CURB	TC	TOP OF CURB
TC	TOP OF CURB	TF	TOP OF FOUNDATION
TF	TOP OF FOUNDATION	T/W	TOP OF RETAINING WALL
T/W	TOP OF RETAINING WALL	TYP	TYPICAL
TYP	TYPICAL	VB	VALVE BOX
VB	VALVE BOX	VC	VERTICAL CURVE
VC	VERTICAL CURVE	VV	VALVE VAULT
VV	VALVE VAULT	W	WALK ELEVATION
W	WALK ELEVATION	WM	WATER MAIN
WM	WATER MAIN	VP1	VERTICAL POINT OF INTERSECTION
VP1	VERTICAL POINT OF INTERSECTION		

BENCHMARKS	
SITE BENCHMARK #1:	CROSS CUT ON WEST SIDE OF CONCRETE LIGHT POLE BASE LOCATED AT THE NORTHWEST CORNER OF MILL STREET AND FERRY ROAD. ELEVATION =744.14(NAVD88)
SITE BENCHMARK #2:	ARROW FLANGE BOLT ON FIRE HYDRANT ON THE EAST SIDE OF MAECLIFF DRIVE APPROXIMATELY 330 FEET NORTH OF FERRY ROAD. ELEVATION =740.00(NAVD88)



NOTES:
 ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
 - STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT-SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 - STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 - CITY CODE OF WARRENVILLE
 IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

DRAINAGE CERTIFICATION	
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DRAINAGE OF SURFACE WATERS WILL NOT BE CHANGED BY THE CONSTRUCTION OF SAID IMPROVEMENTS OR ANY PART THEREOF, OR THAT IF SUCH SURFACE WATER DRAINAGE WILL BE CHANGED, REASONABLE PROVISION HAS BEEN MADE FOR COLLECTION AND DIVERSION OF SUCH SURFACE WATERS INTO PUBLIC AREA, OR DRAINS WHICH THE SUBDIVIDER HAS A RIGHT TO USE AND THAT SUCH SURFACE WATERS WILL BE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES SO AS TO REDUCE THE LIKELIHOOD OF DAMAGE TO THE ADJOINING PROPERTY BECAUSE OF THE CONSTRUCTION OF THE IMPROVEMENTS.	
LICENSED ENGINEER	ENGINEER'S SEAL

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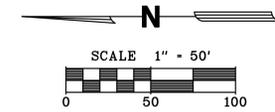
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DRAWN	JD
APPROVED	JAD
DATE	03/14/2025
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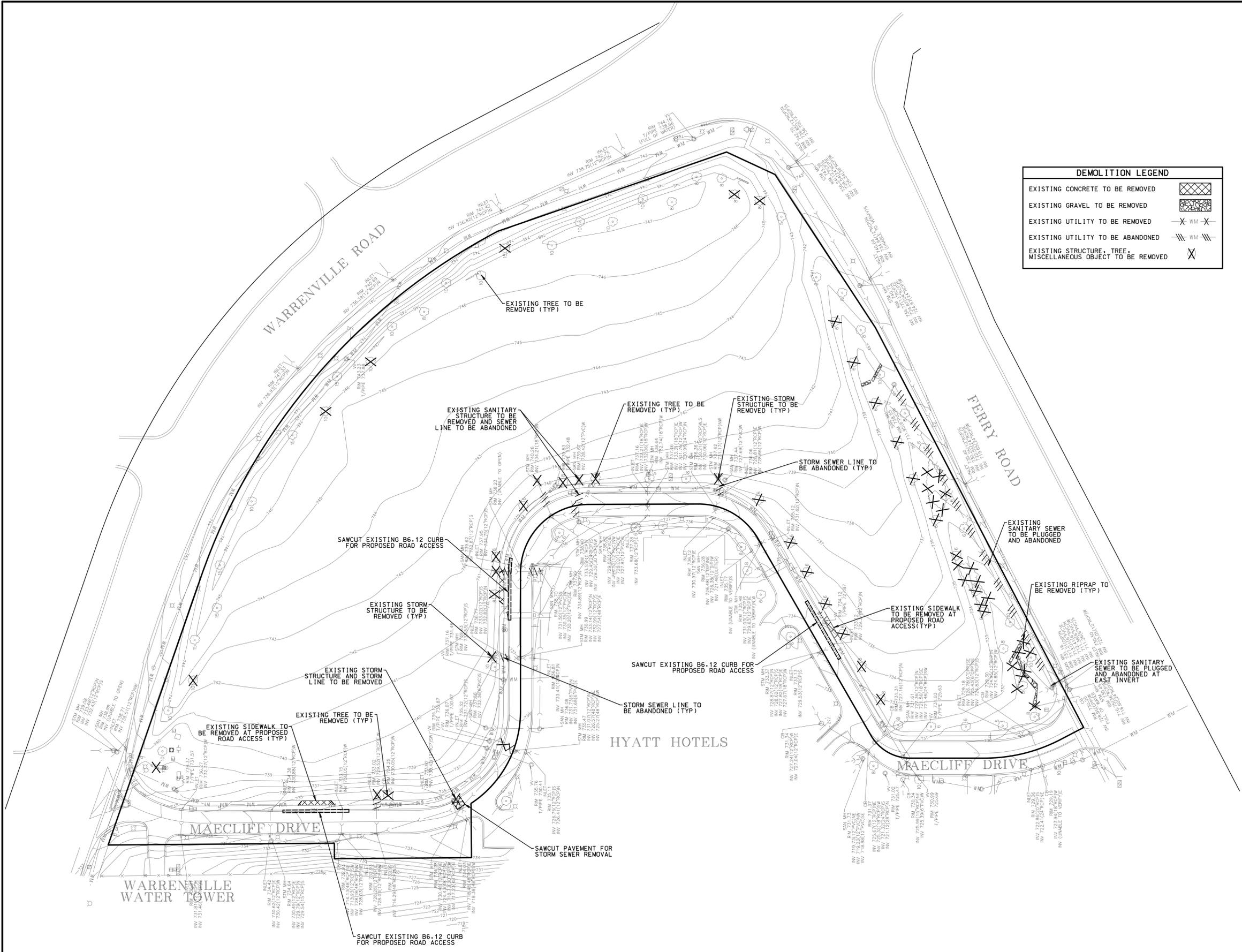
COVER SHEET
 CANTERA POINT
 WARRENVILLE, ILLINOIS

SHEET	
1	OF 18
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DEMOLITION LEGEND	
EXISTING CONCRETE TO BE REMOVED	
EXISTING GRAVEL TO BE REMOVED	
EXISTING UTILITY TO BE REMOVED	
EXISTING UTILITY TO BE ABANDONED	
EXISTING STRUCTURE, TREE, MISCELLANEOUS OBJECT TO BE REMOVED	

- GENERAL NOTES:
- EXISTING TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS ON MARCH 19, 2024. CONTRACTOR SHALL FIELD CHECK EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION AND NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES.
- DEMOLITION PLAN GENERAL NOTES:
- CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REQUIREMENTS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR DEMOLITION WORK AND ASSOCIATED UTILITY DISCONNECT FEES.
 - THE MUNICIPALITY AND THE OWNER SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
 - THIS PLAN WAS PREPARED FROM TOPOGRAPHIC SURVEY PREPARED BY MACKIE CONSULTANTS, LLC, DATED 04/23/24 AND AVAILABLE RECORDS. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES SHOWN AND NOT SHOWN BEFORE COMMENCING WORK AND NOTIFY THE ENGINEER OR OWNER OF ANY DISCREPANCIES.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO BEGINNING DEMOLITION WORK FOR THE EXACT LOCATIONS OF THE UTILITIES. THE CONTRACTOR SHALL ARRANGE FOR THE DISCONNECTION, PROTECTION OR RELOCATION OF ANY EXISTING UTILITY SERVICES, INCLUDING WATER, SEWER, GAS, ELECTRIC, TELEPHONE AND CABLE.
 - THE CONTRACTOR IS REQUIRED TO ASSURE HIMSELF OF LOCATION AND DEPTH OF EXISTING UTILITIES AND RELATED FEATURES AND SHALL REPORT AT ONCE TO THE OWNER OR ENGINEER ANY DISCREPANCIES WITH RESPECT TO INFORMATION INDICATED IN THE CONTRACT DOCUMENTS.
 - ALL HMA PAVEMENT AND BUILDING MATERIALS SHALL BE REMOVED TO AN OFFSITE LOCATION. GRAVEL BASE MATERIALS SHALL BE STOCKPILED ONSITE AND USED FOR TEMPORARY ROADS OR GENERAL FILL, AS APPROVED BY THE OWNER OR DEVELOPER. ANY BASE MATERIALS REMAINING UPON COMPLETION OF THE PROPOSED IMPROVEMENTS SHALL BE HAULED TO AN OFFSITE LOCATION.
 - ALL UTILITIES TO REMAIN AS NOTED SHALL BE ADJUSTED TO THE FINAL GRADES AS PROVIDED ON THE UTILITY PLANS.
 - GAS, TELEPHONE AND ELECTRIC DISTRIBUTION SYSTEM REMOVALS AND ADJUSTMENTS SHALL BE DONE BY RESPECTIVE UTILITY AND PAID FOR SEPARATELY BY OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THIS WORK INCIDENTAL TO THE CONTRACT. ALL ENVIRONMENTAL REMEDIATION WILL BE COMPLETED BY OWNER PRIOR TO START OF CONSTRUCTION.
 - ALL EXISTING UTILITIES ARE TO REMAIN IN SERVICE UNLESS SPECIFICALLY SHOWN TO BE REMOVED.
 - ALL UTILITIES AND STRUCTURES LOCATED WITHIN _____ FEET OF THE PROPOSED BUILDING LOCATION SHALL BE COMPLETELY REMOVED AND THE EXCAVATION BACKFILLED WITH SELECT GRANULAR MATERIAL. ALL REMAINING UTILITIES AND STRUCTURES LOCATED WITHIN THE PROJECT AREA SHALL BE REMOVED TO A DEPTH OF 2- FEET BELOW PROPOSED FINISHED GRADE.
 - ALL PIPES TO BE ABANDONED IN PLACE SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM OF TWO (2) FEET NON-SHRINK CONCRETE MORTAR PLUGS. ANY STRUCTURES TO REMAIN SHALL HAVE THE BOTTOM BROKEN TO FACILITATE DRAINAGE AND FILLED WITH SAND OR PEA GRAVEL.
 - ALL EXISTING TREES, BRUSH, AND MISCELLANEOUS APPURTENANCES, SUCH AS FENCES, WHEEL STOPS, POLES LIGHTS AND MISCELLANEOUS DEBRIS SHALL BE HAULED TO AN OFFSITE LOCATION.
 - ANY EXISTING PAVEMENT TO REMAIN SHALL BE BROKEN UP IN PLACE TO PROVIDE ADEQUATE DRAINAGE.
 - THE CONTRACTOR SHALL ENSURE THAT ALL ADJOINING AREAS, INCLUDING ADJACENT STREETS AND DRIVEWAYS, SHALL BE FREE OF DEBRIS AT ALL TIMES.
 - PAVEMENT, CURB AND GUTTER AND SIDEWALK SHALL BE SAWCUT FULL DEPTH AT THE LIMITS OF REMOVAL.
 - ALL TREES TO REMAIN SHALL BE PROTECTED WITH SILT FENCE OR ORANGE CONSTRUCTION FENCES. PROTECTIVE FENCING SHALL BE PLACED AT THE DRIP LINE OF THE TREE TO BE SAVED. CONSTRUCTION WITHIN THE FENCE WITHOUT PERMISSION FROM THE OWNER OR MUNICIPALITY IS STRICTLY PROHIBITED.
 - EXISTING WELLS ENCOUNTERED SHALL BE EXCAVATED, SEALED AND ABANDONED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS.
 - EXISTING SEPTIC FIELDS ENCOUNTERED SHALL BE EXPOSED, DRAINED AND ABANDONED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS.
 - ANY DAMAGE DONE TO EXISTING STRUCTURES OR OBJECTS NOT SHOWN TO BE REMOVED OR REPLACED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.



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DRAWN	JD
APPROVED	JAD
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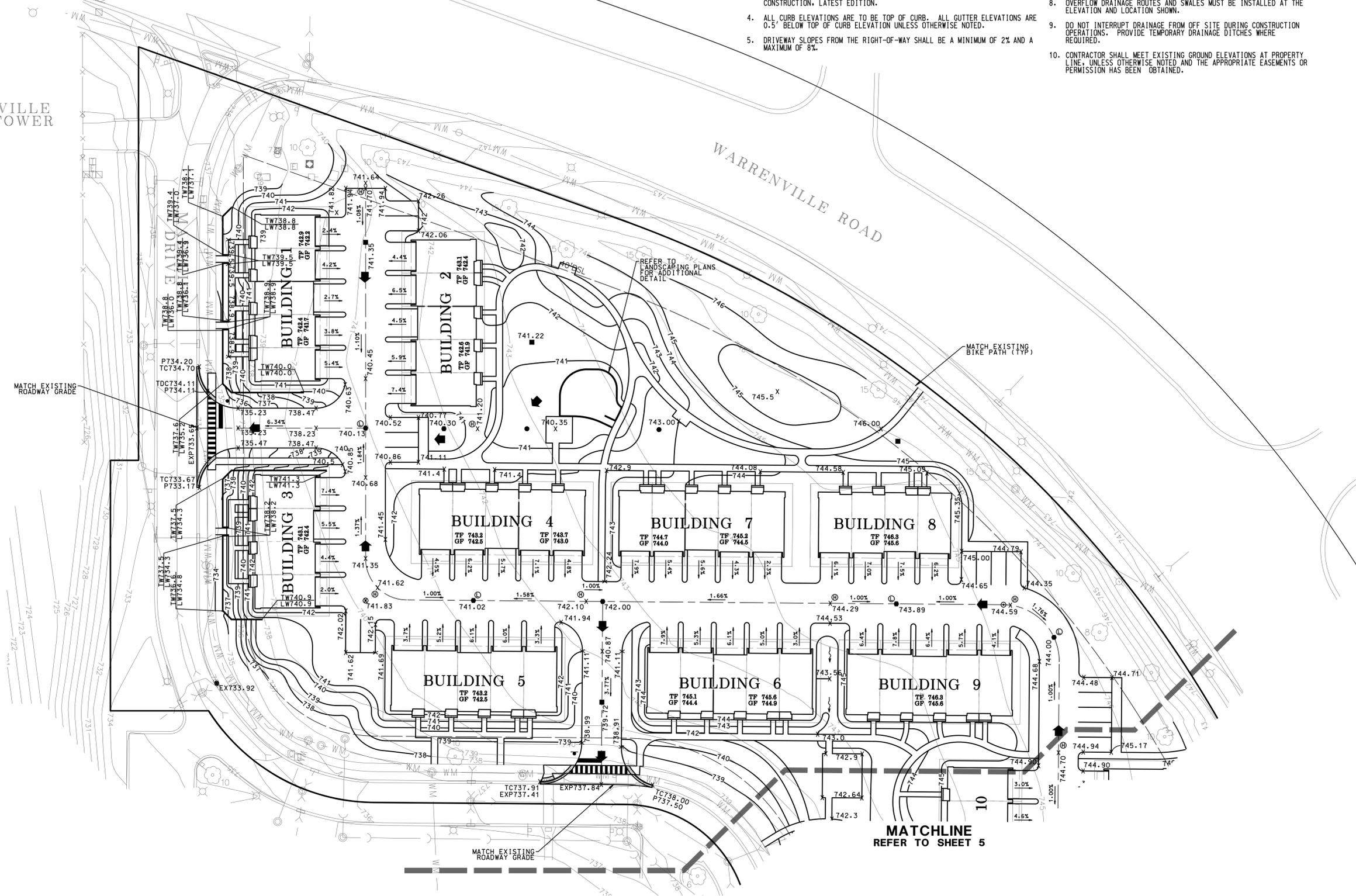
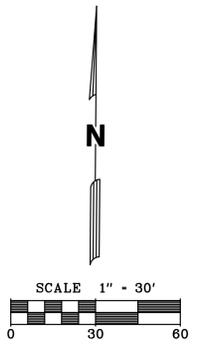
EXISTING CONDITIONS AND DEMOLITION PLAN
CANTERA POINT
WARRENVILLE, ILLINOIS

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WARRENVILLE
WATER TOWER

GRADING PLAN GENERAL NOTES

- EXISTING TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS ON 03/19/2024. CONTRACTOR SHALL FIELD CHECK EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION AND NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES.
- ALL DISTURBED AREAS SHALL BE RESTORED WITH 6-INCHES OF TOPSOIL AND SEED.
- EXCAVATION AND EMBANKMENT SHALL BE PERFORMED PER THE DETAILED SPECIFICATIONS AND THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- ALL CURB ELEVATIONS ARE TO BE TOP OF CURB. ALL GUTTER ELEVATIONS ARE 0.5' BELOW TOP OF CURB ELEVATION UNLESS OTHERWISE NOTED.
- DRIVEWAY SLOPES FROM THE RIGHT-OF-WAY SHALL BE A MINIMUM OF 2% AND A MAXIMUM OF 8%.
- GRADING INDICATED MAY NEED TO BE ADJUSTED BASED ON FIELD CONDITIONS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES WITH FIELD CONDITIONS PRIOR TO FINE GRADING.
- ALL DRAIN TILES ENCOUNTERED DURING MASS GRADING/UTILITY WORK MUST BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM. A RECORD MUST BE KEPT, OF ANY DRAIN TILE ENCOUNTERED, TO BE INCLUDED IN RECORD DRAWINGS.
- OVERFLOW DRAINAGE ROUTES AND SWALES MUST BE INSTALLED AT THE ELEVATION AND LOCATION SHOWN.
- DO NOT INTERRUPT DRAINAGE FROM OFF SITE DURING CONSTRUCTION OPERATIONS. PROVIDE TEMPORARY DRAINAGE DITCHES WHERE REQUIRED.
- CONTRACTOR SHALL MEET EXISTING GROUND ELEVATIONS AT PROPERTY LINE, UNLESS OTHERWISE NOTED AND THE APPROPRIATE EASEMENTS OR PERMISSION HAS BEEN OBTAINED.



HYATT HOTELS

MATCHLINE
REFER TO SHEET 5

MATCHLINE
REFER TO SHEET 10

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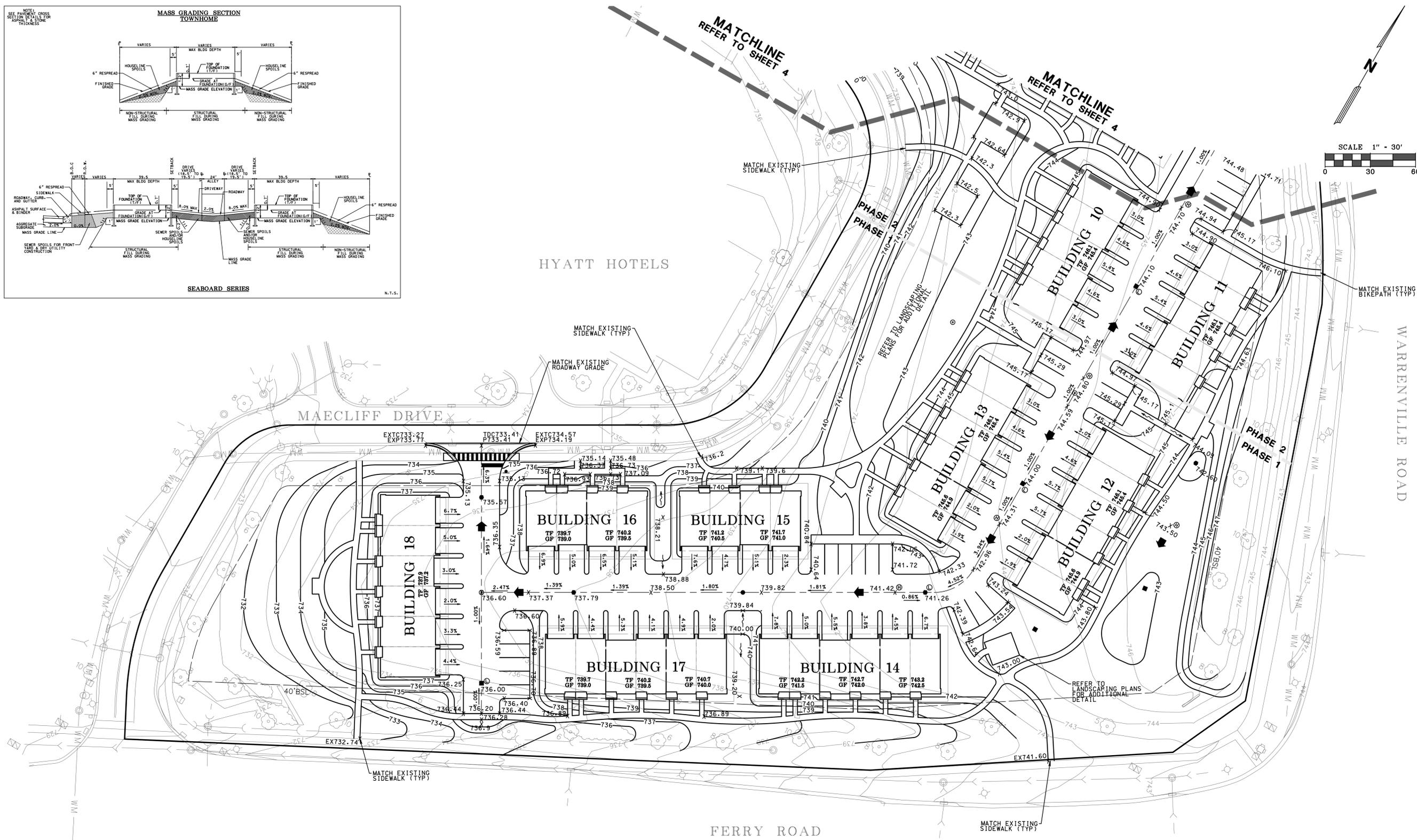
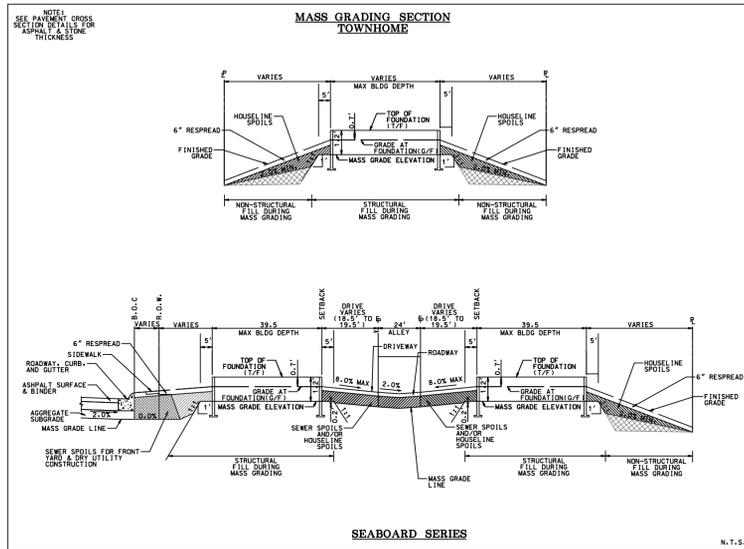
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**GRADING PLAN - NORTH
CANTERA POINT
WARRENVILLE, ILLINOIS**

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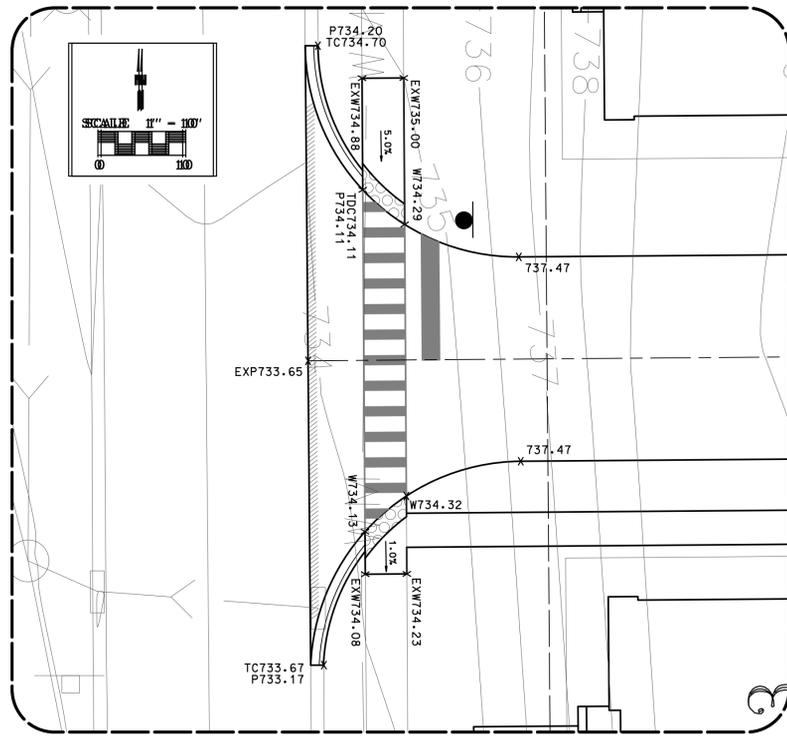
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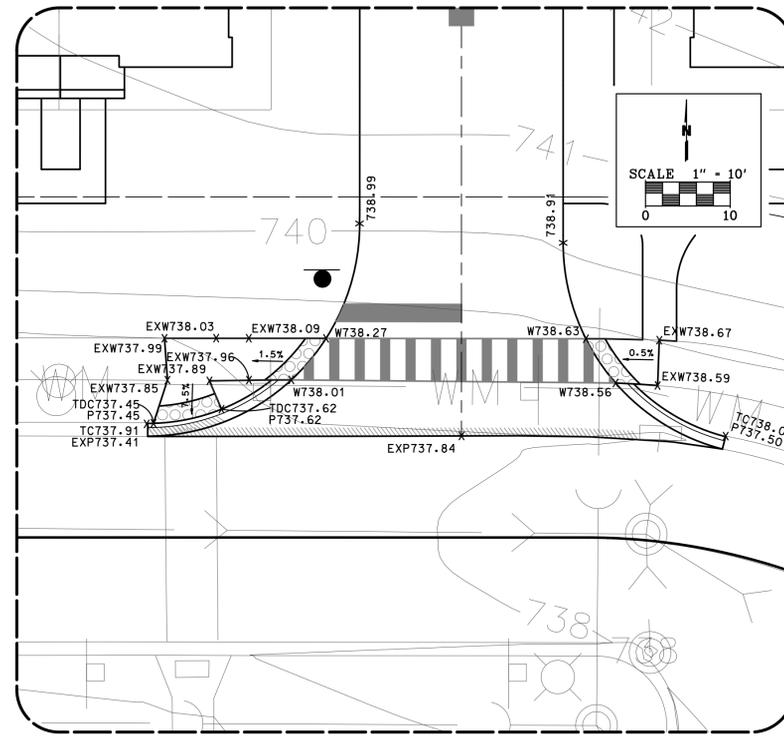
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**GRADING PLAN - SOUTH
 CANTERA POINT
 WARRENVILLE, ILLINOIS**

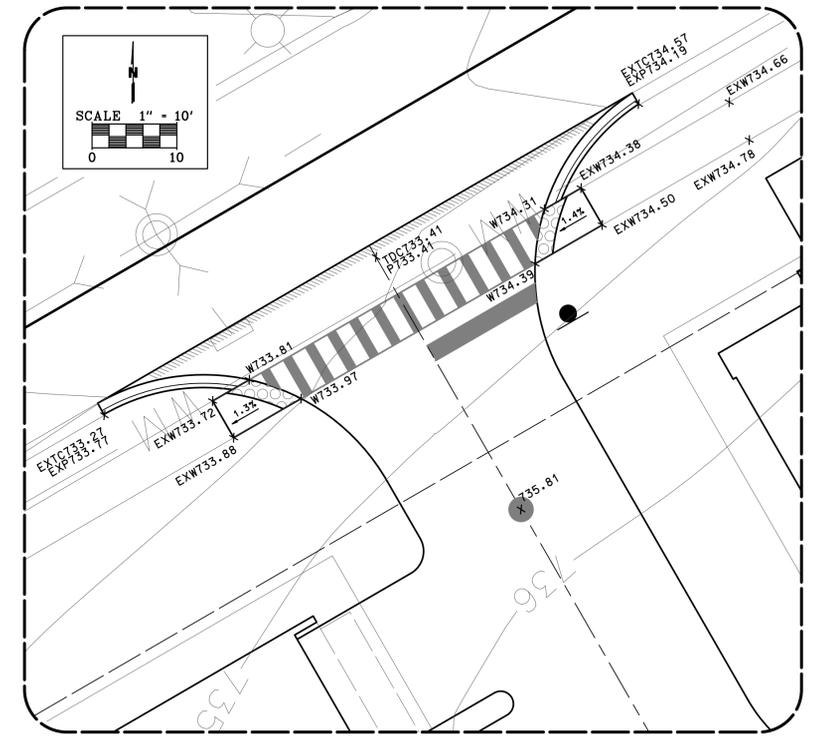
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ADA DETAIL 1



ADA DETAIL 2



ADA DETAIL 3

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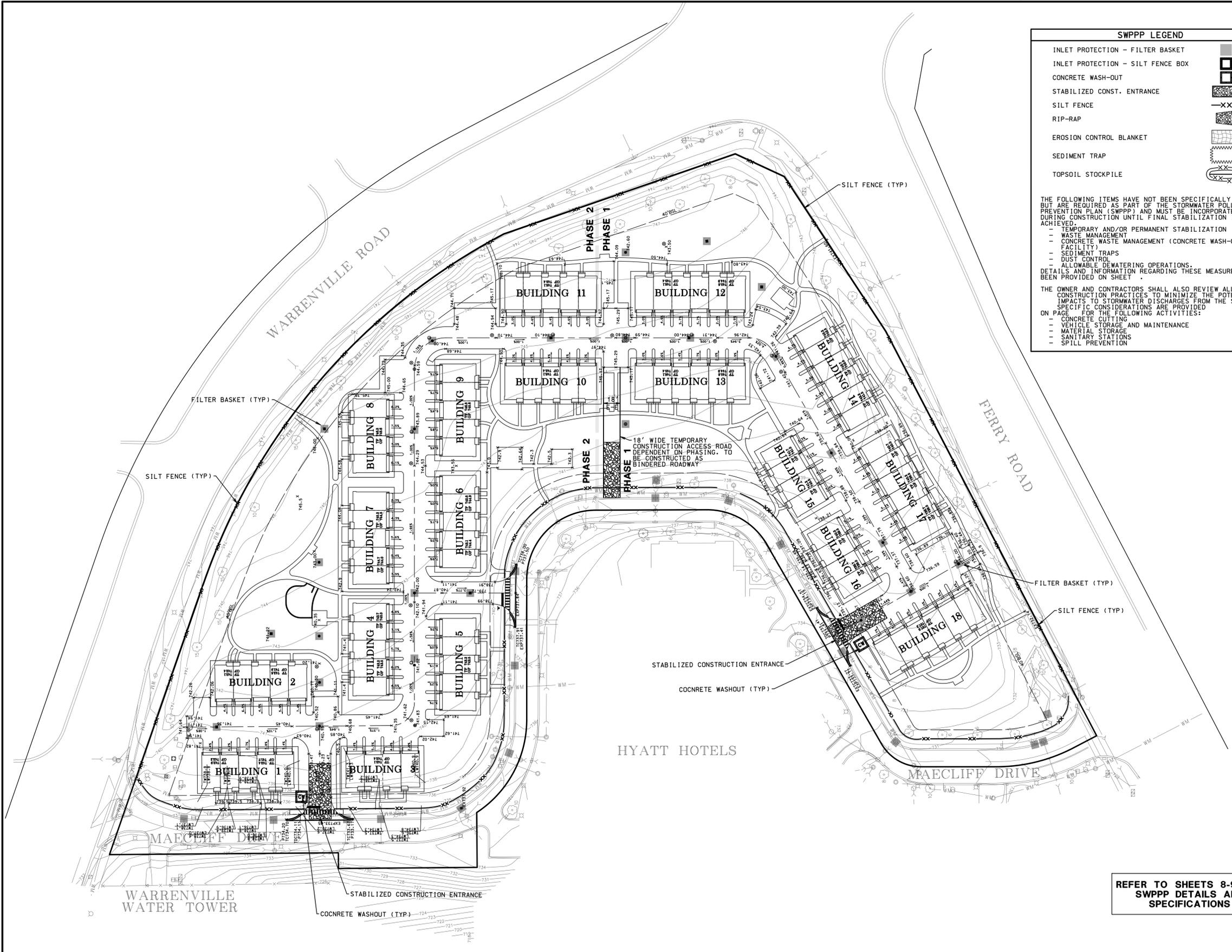
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**ADA GRADING DETAILS
 CANTERA POINT
 WARRENVILLE, ILLINOIS**

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SWPPP LEGEND

- INLET PROTECTION - FILTER BASKET
- INLET PROTECTION - SILT FENCE BOX
- CONCRETE WASH-OUT
- STABILIZED CONST. ENTRANCE
- SILT FENCE
- RIP-RAP
- EROSION CONTROL BLANKET
- SEDIMENT TRAP
- TOPSOIL STOCKPILE

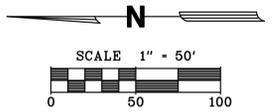
THE FOLLOWING ITEMS HAVE NOT BEEN SPECIFICALLY SHOWN BUT ARE REQUIRED AS PART OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND MUST BE INCORPORATED DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED:

- TEMPORARY AND/OR PERMANENT STABILIZATION
- WASTE MANAGEMENT
- CONCRETE WASTE MANAGEMENT (CONCRETE WASH-OUT FACILITY)
- SEDIMENT TRAPS
- DUST CONTROL
- ALLOWABLE DEWATERING OPERATIONS.

DETAILS AND INFORMATION REGARDING THESE MEASURES HAVE BEEN PROVIDED ON SHEET

THE OWNER AND CONTRACTORS SHALL ALSO REVIEW ALL CONSTRUCTION PRACTICES TO MINIMIZE THE POTENTIAL IMPACTS TO STORMWATER DISCHARGES FROM THE SITE. SPECIFIC CONSIDERATIONS ARE PROVIDED ON PAGE 7 FOR THE FOLLOWING ACTIVITIES:

- CONCRETE CUTTING
- VEHICLE STORAGE AND MAINTENANCE
- MATERIAL STORAGE
- SANITARY STATIONS
- SPILL PREVENTION



GENERAL INFORMATION
 THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN DEVELOPED TO FULFILL ONE OF THE REQUIREMENTS OF THE GENERAL NPDES PERMIT NO. ILR10 FOR THE DISCHARGE OF STORM WATER ASSOCIATED WITH CONSTRUCTION PROJECTS DISTURBING ONE ACRE OR MORE. THE OWNER AND CONTRACTORS SHALL COMPLY WITH ALL REQUIREMENTS OF THE ILR10 FOR ALL SUCH CONSTRUCTION PROJECTS. THE STORM WATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY FROM THIS SITE ARE SUBJECT TO THE CONDITIONS AND REQUIREMENTS OF THE ILR10 GENERAL NPDES PERMIT, EFFECTIVE DATE SEPTEMBER 22, 2023.

ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH "PROCEDURES AND STANDARDS FOR URBAN SOIL AND EROSION AND SEDIMENTATION CONTROL IN ILLINOIS" AND THE "ILLINOIS URBAN MANUAL."

THE EXECUTED OWNER CERTIFICATION AND THE CONTRACTOR CERTIFICATIONS SHALL BE KEPT ONSITE WITH THE APPROVED SWPPP.

SWPPP AVAILABILITY
 THE OWNER SHALL RETAIN A COPY OF THE SWPPP AT THE CONSTRUCTION SITE FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION. IF NO LOCATION EXISTS ON SITE FOR DOCUMENT STORAGE, SIGNAGE SHALL BE POSTED NEAR THE MAIN ENTRANCE WITH SWPPP LOCATION FOR VIEWING.

KEEPING PLANS CURRENT
 THE PERMITTEE SHALL AMEND THE PLAN WITHIN 7 DAYS 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 PLAN OR IF THE PLAN PROVES TO BE INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY CONTROLLING POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION SITE ACTIVITY. IN ADDITION, THE PLAN SHALL BE AMENDED TO IDENTIFY ANY NEW CONTRACTOR AND/OR SUBCONTRACTOR THAT WILL IMPLEMENT A MEASURE OF THE PLAN. AMENDMENTS TO THE PLAN MAY BE REQUIRED BY THE MUNICIPALITY, OWNER, OR OTHER REVIEWING AGENCY. COPIES OF THE AMENDMENTS SHALL BE KEPT ONSITE AS PART OF THE SWPPP.

RETENTION OF RECORDS
 THE OWNER SHALL RETAIN COPIES OF THIS PLAN AND ALL REPORTS AND NOTICES REQUIRED BY THIS PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT, FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE PERMIT COVERAGE EXPIRES OR IS TERMINATED. THIS PERIOD MAY BE EXTENDED BY THE REQUEST OF THE AGENCY AT ANY TIME. IN ADDITION, THE OWNER SHALL RETAIN A COPY OF THE PLAN REQUIRED BY THIS PERMIT AT THE CONSTRUCTION SITE FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

CORRECTIVE ACTIONS
 CORRECTIVE ACTION SHALL BE TAKEN AND DOCUMENTED WITHIN 7 DAYS OF IDENTIFICATION. IF CORRECTIVE ACTION IS NOT CORRECTED WITHIN 7 DAYS, REASONING AND A PROJECTED SCHEDULE FOR REPAIRS SHALL BE PROVIDED.

ILR10 NOTICE OF TERMINATION GUIDANCE
 WHEN A SITE HAS BEEN FINALLY STABILIZED AND ALL STORM WATER DISCHARGES FROM CONSTRUCTION SITES THAT ARE AUTHORIZED BY THE ILR10 PERMIT ARE ELIMINATED, THE OWNER OF THE FACILITY MUST SUBMIT A COMPLETED NOTICE OF TERMINATION THAT IS SIGNED IN ACCORDANCE WITH PART 11.1.F.1.0 (SIGNATORY REQUIREMENTS) OF THE PERMIT.

- BEST MANAGEMENT PRACTICES FOR POST CONSTRUCTION STORMWATER MANAGEMENT**
 THE FOLLOWING POST-CONSTRUCTION PRACTICES HAVE BEEN INCLUDED WITHIN THIS STORMWATER POLLUTION PREVENTION PLAN TO CONTROL POLLUTION UPON COMPLETION OF CONSTRUCTION ACTIVITIES:
- DEEP WATER DETENTION PONDS WITH NATIVE VEGETATION PLANTED ON SIDE SLOPES;
 - DRY BOTTOM DETENTION PONDS WITH NATIVE PLANTINGS;
 - WATER-QUALITY DETENTION BASIN WITH EMERGENT AND NATIVE PLANTINGS;
 - POND INLET/OUTLET DESIGN TO PREVENT SHORT-CIRCUITING OF FLOW;
 - SEDIMENT POOLS AT DISCHARGE POINTS IN WATER QUALITY PONDS;
 - PERMANENT LEVEL SPREADERS;
 - VEGETATED SWALES WITH NATIVE PLANTINGS;
 - VEGETATED SWALES WITH NATIVE PLANTINGS AND UNDERDRAINS;
 - VEGETATED SWALES WITH TURF GRASSES;
 - FILTER STRIPS, 25-FOOT MINIMUM, WITH NATIVE GRASSES;
 - FILTER STRIPS, 25-FOOT MINIMUM WITH TURF GRASSES;
 - INFILTRATION BASINS;
 - INFILTRATION TRENCHING;
 - PERMEABLE PAVERS/PERMEABLE PAVEMENT;
 - CDS OR EQUAL MANUFACTURED STORMWATER TREATMENT SYSTEM;
 - RAIN BARRELS;
 - DRY WELL;
 - RIP RAP AT STORMWATER DISCHARGE POINTS;
 - HOUSE DOWNSPOUTS POSITIONED TO DISCHARGE ON GRADE VEGETATED/PERVIOUS GROUND COVER.

REFER TO SHEETS 8-9 FOR SWPPP DETAILS AND SPECIFICATIONS

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CLIENT:
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America's Builder
 D.R. HORTON, INC.-MIDWEST
 1750 E. GOLF ROAD, SUITE 925
 SCHAUMBURG, ILLINOIS 60173

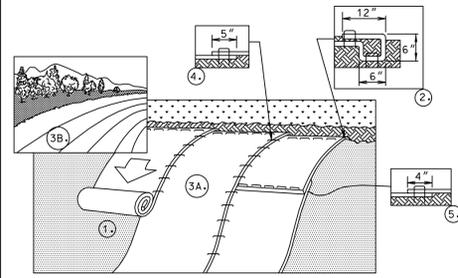
DESIGNED	JAD		
DRAWN	JD		
APPROVED	JAD		
DATE	03/14/2025		
SCALE	1" = 50'		
06/12/25	REVISED PER CITY COMMENTS	RMB	
DATE	DESCRIPTION OF REVISION	BY	

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
CANTERA POINT
WARRENVILLE, ILLINOIS

SHEET
7 OF 18
 PROJECT NUMBER: 4821
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 ILLINOIS FIRM LICENSE 184-002694

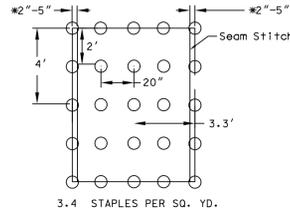
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EROSION CONTROL BLANKET DETAILS



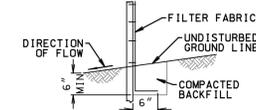
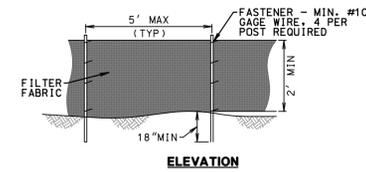
EROSION CONTROL BLANKET SPECIFICATIONS:

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP'S OVER COMPACTED SOIL WITH A ROW OF BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP'S.
3. ROLL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S ARE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2" - 5" OVERLAP DEPENDING ON RECP'S TYPE.
5. CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECP'S WIDTH. NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.
6. BURY TOE OF RECP'S IN TRENCH 6" WIDE BY 6" DEEP.

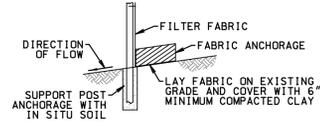


EROSION CONTROL BLANKET STAPLE PATTERN DETAIL
NOT TO SCALE

1. STAPLES SHALL BE PLACED IN A DIAMOND PATTERN AT 2 PER SY FOR STITCHED BLANKETS. NON-STITCHED BLANKETS SHALL USE 4 STAPLES PER SY OF MATERIAL.
2. STAPLE OR PUSH PIN LENGTHS SHALL BE SELECTED BASED ON SOIL TYPE AND CONDITIONS (MINIMUM STAPLE LENGTH IS 6-INCHES).
3. ALL ANCHOR SLOTS SHALL BE STAPLED AT APPROXIMATELY 12-INCH INTERVALS.



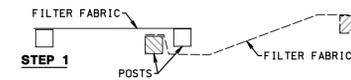
FABRIC ANCHOR DETAIL



DETAIL TO BE USED IN AREAS ADJACENT TO TREE PROTECTION FENCE

NOTES:

1. TEMPORARY SEDIMENT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD; SILT FENCE SHALL BE REMOVED IN CONJUNCTION WITH FINAL GRADING AND SITE STABILIZATION.
2. FILTER FABRIC SHALL MEET THE REQUIREMENTS AS SET FORTH BY AASHTO M-988-00, CHAPTER 9.
3. FENCE POST SHALL EITHER BE STANDARD STEEL POST OR WOOD POST WITH A MINIMUM SECTIONAL AREA OF 3.0 SQ. IN.

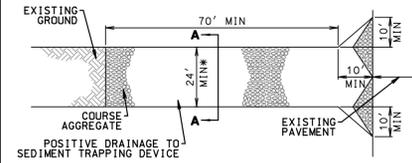


ATTACHING TWO SILT FENCES

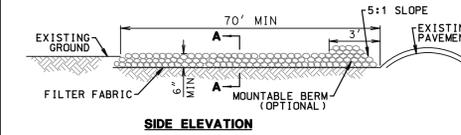
NOTES:

1. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE.
2. ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL.
3. DRIVE BOTH POSTS A MINIMUM OF 18 INCHES INTO THE GROUND AND BURY THE FLAP.

SILT FENCE DETAIL



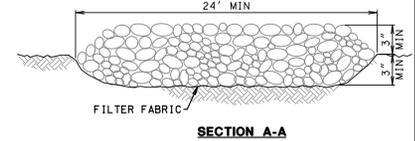
PLAN VIEW



SIDE ELEVATION

STABILIZED CONSTRUCTION ENTRANCE DETAIL

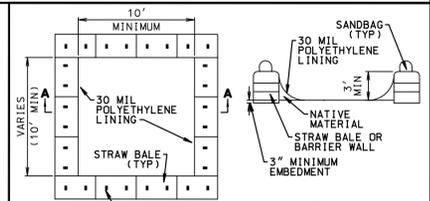
NOT TO SCALE



SECTION A-A

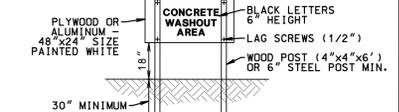
NOTES:

1. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF AASHTO M-288-00 AND SHALL BE PLACED OVER THE CLEARED AREA PRIOR TO THE PLACING OF ROCK.
2. ROCK OR RECLAIMED CONCRETE SHALL BE IDOT COARSE AGGREGATE GRADATION CA-1, CA-2, CA-3 OR CA-4.
3. STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO ONSET OF CONSTRUCTION OPERATIONS AND SHALL BE MAINTAINED THROUGHOUT THE PROJECT DURATION.
4. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHALL BE CONSTRUCTED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
5. IF WASH RACKS ARE USED THEY SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.



PLAN

6" WIRE STAPLE OR SANDBAG (TYP) ANCHOR EVERY 2- FEET



SIGN DETAIL (OR EQUIVALENT)

NOTES:

1. LAYOUT AND LOCATION AS SHOWN ON ENGINEERING PLANS OR FIELD LOCATED AS APPROVED BY MUNICIPALITY OR AUTHORIZED AGENT.
2. MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHALL INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND/OR SLURRY AND RETURNING FACILITY TO A FUNCTIONAL CONDITION.
3. FACILITY SHALL BE CLEANED OR RE-CONSTRUCTED IN A NEW AREA ONCE WASHOUT BECOMES TWO-THIRDS FULL.

CONCRETE WASHOUT FACILITY

NOT TO SCALE

DESIGNED	JAD
DRAWN	JD
APPROVED	JAD
DATE	03/14/2025
SCALE	N.T.S.
REVISED PER CITY COMMENTS	RMB
DATE	BY

GENERAL INFORMATION

SITE DESCRIPTION

- A. THIS PLAN COVERS THE DEVELOPMENT OF CANTERA POINT MULTIFAMILY RESIDENTIAL DEVELOPMENT AND ALL ASSOCIATED IMPROVEMENTS.
- B. THE FOLLOWING IS A DESCRIPTION OF THE INTENDED SEQUENCE OF CONSTRUCTION ACTIVITIES:
 1. INSTALL PERIMETER SOIL EROSION AND SEDIMENT CONTROL MEASURES
 - SELECTIVE VEGETATION REMOVAL FOR SILT FENCE INSTALLATION
 - PERIMETER SILT FENCE
 - CONSTRUCTION FENCING AROUND AREAS NOT TO BE DISTURBED
 - STABILIZED CONSTRUCTION ENTRANCE
 - INLET FILTER BASKETS AND INLET SILT FENCE BOXES ON ADJACENT SITE AREAS
 2. DEMOLITION OF EXISTING STRUCTURES.
 3. TREE REMOVAL WHERE NECESSARY (CLEAR & GRUB).
 4. CONSTRUCT SEDIMENT TRAPPING DEVICES (SEDIMENT TRAPS, BASINS).
 5. CONSTRUCTION DETENTION FACILITIES AND OUTLET CONTROL STRUCTURE WITH OUTLET PROTECTION NOTED ON PLAN.
 6. STRIP TOPSOIL, STOCKPILE TOPSOIL AND GRADE SITE.
 7. TEMPORARY STABILIZE TOPSOIL STOCKPILES (INCLUDING SEED AND SILT FENCE AROUND THE PERIMETER).
 8. INSTALL STORM SEWER, SANITARY SEWER, AND WATER MAIN.
 9. INSTALL INLET PROTECTION WITHIN ALL STORM STRUCTURES WITH OPEN GRATES.
 10. PERMANENTLY STABILIZE DETENTION BASINS WITH SEED AND EROSION CONTROL BLANKET OR AS SHOWN ON THE APPROVED LANDSCAPE PLAN.
 11. TEMPORARY STABILIZE ALL AREAS INCLUDING AREAS THAT HAVE REACHED TEMPORARY GRADE WITHIN 7 DAYS OF LAST CONSTRUCTION ACTIVITY IN THAT AREA.
 12. INSTALL ROADWAYS.
 13. PERMANENTLY STABILIZE GRASSY AREAS.
 14. REMOVAL ALL TEMPORARY CONTROL MEASURES AFTER SITE IS STABILIZED AND RE-SEED AREAS DISTURBED BY THEIR REMOVAL.
- C. THE SITE HAS A TOTAL ACREAGE OF APPROXIMATELY 9.44 ACRES. CONSTRUCTION ACTIVITY WILL DISTURB APPROXIMATELY 8.7 ACRES OF THE SITE.
- D. THE RUNOFF COEFFICIENT FOR THE SITE FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITIES IS COMPOSITE "C"= 0.69. THE EXISTING SOILS FROM THE SITE MAINLY CONSIST OF SANDY LEAN CLAY.
- E. PLEASE REFER TO PAGE 2 FOR A MAP INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED BEFORE AND AFTER MAJOR GRADING ACTIVITIES. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AND CONTROLS TO PREVENT OFFSITE SEDIMENT TRACKING, AREAS OF SOIL DISTURBANCE, THE LOCATION OF MAJOR STRUCTURAL AND NON-STRUCTURAL CONTROLS IDENTIFIED IN THE PLAN, THE LOCATIONS OF AREAS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR, SURFACE WATERS (INCLUDING WETLANDS), AND LOCATIONS WHERE STORM WATER IS DISCHARGED TO A SURFACE WATER.
- F. THE RECEIVING WATER OF THE PROPOSED DEVELOPMENT IS THE WEST BRANCH OF THE DUPAGE RIVER.
- G. POTENTIAL SOURCES OF POLLUTION ASSOCIATED WITH THIS CONSTRUCTION ACTIVITY MAY INCLUDE:
 - SEDIMENT FROM DISTURBED SOILS
 - FUEL TANKS
 - WASTE CONTAINERS
 - OIL OR OTHER PETROLEUM PRODUCTS
 - TAR
 - DETERGENTS
 - PAINTS
 - CONSTRUCTION DEBRIS
 - CONCRETE AND CONCRETE TRUCKS
 - SANITARY STATIONS
 - STAGING AREAS
 - RAW MATERIALS (IE BAGGED PORTLAND CEMENT)
 - ADHESIVES
 - SOLVENTS
 - FERTILIZERS
 - LITTER
 - LANDSCAPE WASTE

ADDITIONAL MEASURES REQUIRED:

1. STABILIZATION: STABILIZATION PRACTICES MUST BE INITIATED WITHIN ONE (1) WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NOT LATER THAN 14 DAYS FROM THE INITIATION OF STABILIZATION WORK IN ANY AREA. EXCEPTIONS TO THESE TIME FRAMES ARE SPECIFIED AS PROVIDED BELOW:
 - A. WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.
 - B. ON AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION METHOD CAN BE USED.
 - C. THE FOLLOWING PRACTICES ARE ACCEPTABLE STABILIZATION MEASURES:
 - PERMANENT SEEDING: IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN.
 - TEMPORARY SEEDING: MAY CONSIST OF SPRING OATS (100 LBS/ACRE) AND/OR WHEAT OR CEREAL RYE (150 LBS/ACRE).
 - MULCHING
 - GEOTEXTILES
 - SODDING
 - VEGETATIVE BUFFER STRIPS
 - PROTECTION OF TREES
 - PRESERVATION OF MATURE VEGETATION
 - STAGED OR STAGGERED DEVELOPMENT

THE APPROPRIATE STABILIZATION MEASURE SHALL BE DETERMINED BASED ON SITE CONDITIONS AT THE TIME THE CONSTRUCTION ACTIVITY HAS CEASED, INCLUDING BUT NOT LIMITED TO WEATHER CONDITIONS AND LENGTH OF TIME MEASURE MUST BE EFFECTIVE.

2. WASTE MANAGEMENT

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 ONSITE. WASTE DISPOSAL SHOULD COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS

ONSITE HAZARDOUS MATERIAL STORAGE SHOULD BE MINIMIZED AND STORED IN LABELED, SEPARATE RECEPTACLES FROM NON-HAZARDOUS WASTE. ALL HAZARDOUS WASTE SHOULD BE STORED AND DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND FEDERAL REGULATION OR BY THE MANUFACTURER.

3. CONCRETE WASTE MANAGEMENT

CONCRETE WASTE OR WASHOUT SHOULD NOT BE ALLOWED IN THE STREET OR ALLOWED TO REACH A STORM WATER DRAINAGE SYSTEM OR WATERCOURSE. 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. CONCRETE WASHOUT AREAS 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 AS APPROVED BY THE MUNICIPALITY AND USED AGAIN ONSITE OR HAULED OFFSITE TO AN APPROPRIATE LANDFILL.

4. DEWATERING OPERATIONS

DURING DEWATERING/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). DISCHARGES SHALL BE TREATED TO MINIMIZE DISCHARGE OF POLLUTANTS. 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. DISCHARGE OF VISIBLE SOLIDS OR FOAMS IS NOT PERMITTED. PUMPING OPERATIONS SHOULD BE DISCHARGED TO A STABILIZED AREA THAT CONSISTS OF AN ENERGY DISSIPATING DEVICE (I.E. STONE, SEDIMENT FILTER BAG, OR BOTH). WHEN NECESSARY, STABILIZED CONVEYANCE CHANNELS SHOULD BE INSTALLED TO DIRECT WATER TO THE DESIRED LOCATION. ADDITIONAL BMP'S MAY BE REQUIRED AT THE OUTLET AREA AS REQUESTED BY THE MUNICIPALITY, OR OTHER REVIEWING AGENCY.

5. DUST CONTROL

DUST SHALL BE MINIMIZED ON AREAS OF EXPOSED SOILS THROUGH THE APPROPRIATE APPLICATION OF WATER OR OTHER DUST SUPPRESSION TECHNIQUES AS LISTED BELOW:

- SPRINKLING/IRRIGATION
- VEGETATIVE COVER
- MULCH
- TILLAGE
- WATER TRUCK
- SPRAY-ON SOIL TREATMENTS
- STONE

6. OFF-SITE VEHICLE TRACKING

STABILIZED CONSTRUCTION ENTRANCE(S) SHOULD BE INSTALLED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS, TO REDUCE EXCESS SEDIMENT, DIRT OR STONE TRACKED FROM THE SITE. SEDIMENT TRACKED OFFSITE ON ADJACENT ROADWAYS SHALL BE CLEANED BY THE END OF THE SAME BUSINESS DAY IN WHICH THE TRACK-OUT OCCURS OR BY THE END OF THE NEXT BUSINESS DAY IF TRACK-OUT OCCURS ON A NON-BUSINESS DAY. ACCUMULATED SEDIMENT AND STONE SHOULD BE REMOVED FROM THE STABILIZED ENTRANCE AS NEEDED. VEHICLES HAULING ERODIBLE MATERIAL TO AND FROM THE CONSTRUCTION SITE SHOULD BE COVERED WITH A TARP. HOSING OR SWEEPING SEDIMENT INTO THE STORMWATER SYSTEM OR WATERS OF THE U.S. IS NOT PERMITTED.

7. CONCRETE CUTTING

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.

8. VEHICLE STORAGE AND MAINTENANCE

WHEN NOT IN USE, VEHICLES UTILIZED IN THE DEVELOPMENT OPERATIONS OF THE SITE SHOULD BE STORED IN A DESIGNATED UPLAND AREA AWAY FROM ANY NATURAL OR CREATED WATERCOURSE, POND, DRAINAGE-WAY OR STORM DRAIN. WHENEVER POSSIBLE VEHICLE MAINTENANCE, FUELING, AND WASHING SHOULD OCCUR OFFSITE. IF ALLOWED ON-SITE, VEHICLE MAINTENANCE (INCLUDING BOTH ROUTINE MAINTENANCE AS WELL AS ON-SITE REPAIRS) SHOULD BE MADE WITHIN THE DESIGNATED AREA 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 VEHICLES 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 AUTOMOTIVE-RELATED CHEMICALS ACCORDING TO MANUFACTURER OR MSDS INSTRUCTIONS. CONTRACTORS SHOULD IMMEDIATELY REPORT SPILLS TO THE OWNER FOR PROPER REMEDIATION.

WASH WATERS, FROM EQUIPMENT OR VEHICLE WASHING, WHEEL WASH WATER AND OTHER WASH WATERS, MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.

9. MATERIAL STORAGE

MATERIALS AND OR CONTAINERS SHOULD BE STORED IN A MANNER THAT MINIMIZES THE POTENTIAL TO DISCHARGE INTO STORM DRAINS OR WATERCOURSES. AN ONSITE AREA SHOULD BE DESIGNATED FOR MATERIAL DELIVERY AND STORAGE. ALL MATERIALS KEPT ONSITE 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 SHEETS SHOULD BE AVAILABLE FOR REFERENCING CLEAN UP PROCEDURES. ANY RELEASE OF CHEMICALS OR CONTAMINANTS SHOULD BE IMMEDIATELY CLEANED UP AND DISPOSED OF PROPERLY. CONTRACTORS SHOULD IMMEDIATELY REPORT ALL SPILLS TO THE OWNER, WHO SHOULD NOTIFY THE APPROPRIATE AGENCIES, IF NEEDED.

TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS ONSITE, HAZARDOUS PRODUCTS SHOULD BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RE-SEALABLE. THE ORIGINAL LABELS AND MSDS DATA SHOULD BE RETAINED ONSITE AT ALL TIMES. HAZARDOUS MATERIALS AND ALL OTHER MATERIAL ONSITE SHOULD BE STORED IN COVERED OR DESIGNATED CONTAINMENT AREAS IN ACCORDANCE WITH MANUFACTURER OR MSDS SPECIFICATIONS. WHEN DISPOSING OF HAZARDOUS MATERIALS, FOLLOW MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS.

10. SANITARY STATIONS

TO THE EXTENT PRACTICABLE, PORT-A-POTTIES SHOULD BE LOCATED AT A MINIMUM 8 FEET BEHIND THE CURB AND GUTTER OF THE INTERNAL ROADS AND 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. PORT-A-POTTIES LOCATED ON IMPERVIOUS SURFACES SHOULD BE PLACED ON TOP OF A SECONDARY CONTAINMENT DEVICE, OR BE SURROUNDED BY A CONTROL DEVICE (I.E. GRAVEL-BAG BERM).

11. SPILL PREVENTION

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 THIS PERMIT. IF A SPILL OCCURS, NOTIFY THE OWNER IMMEDIATELY. THE CONSTRUCTION SITE SHOULD HAVE THE CAPACITY TO CONTROL, CONTAIN, AND REMOVE SPILLS IF THEY OCCUR. SPILLS SHOULD BE CLEANED IMMEDIATELY AFTER DISCOVERY IN ACCORDANCE WITH MSDS AND NOT BURIED ON SITE OR WASHED INTO STORM DRAINS 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, REGARDLESS OF SIZE. WHEN CLEANING UP A SPILL, THE AREA SHOULD BE KEPT WELL VENTILATED AND APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT SHOULD BE USED TO MINIMIZE INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

IN ADDITION TO PROPER WASTE MANAGEMENT, CONCRETE WASTE MANAGEMENT, CONCRETE CUTTING, VEHICLE STORAGE AND MAINTENANCE, MATERIAL STORAGE, AND SANITARY STATION PROTECTION, 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 CHANCE OF LEAKAGE.
- PETROLEUM PRODUCTS SHOULD BE STORED IN TIGHTLY SEALED AND CLEARLY LABELED CONTAINERS.
- ALL PAINT CONTAINERS SHOULD BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHOULD BE DISPOSED OF ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS, AND SHOULD NOT BE DISCHARGED TO THE STORM SEWER.
- CONTRACTORS SHOULD FOLLOW THE MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL OF MATERIALS.

MAINTENANCE

THE FOLLOWING IS A DESCRIPTION OF PROCEDURES THAT SHOULD BE USED TO MAINTAIN, IN GOOD AND EFFECTIVE OPERATION CONDITIONS, VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES STORMWATER UTILITY STRUCTURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THIS PLAN AND STANDARD SPECIFICATIONS.

STABILIZED CONSTRUCTION ENTRANCE- THE ENTRANCES SHOULD BE MAINTAINED TO PREVENT TRACKING OF SEDIMENT ONTO PUBLIC STREETS. MAINTENANCE INCLUDES TOP DRESSING WITH ADDITIONAL STONE AND REMOVING TOP LAYERS OF STONES AND SEDIMENT. THE SEDIMENT RUN-OFF ONTO THE PUBLIC RIGHT OF WAY SHOULD BE REMOVED IMMEDIATELY.

RIPRAP OUTLET PROTECTION: RIPRAP SHOULD BE INSPECTED FOR ANY SCOUR BENEATH THE RIPRAP OR FOR STONES THAT HAVE BEEN DISLODGED. SEDIMENT ACCUMULATION IN THE OUTFALL AREA SHOULD BE REMOVED AS NEEDED.

CONCRETE WASHOUT AREA: EXISTING FACILITIES SHOULD BE CLEANED OUT, OR NEW FACILITIES SHOULD BE CONSTRUCTED AND OPERATIONAL ONCE THE EXISTING WASHOUT IS 75% FULL. WASHOUTS SHOULD BE INSPECTED FREQUENTLY TO ENSURE THAT PLASTIC LININGS ARE INTACT AND SIDEWALLS HAVE NOT BEEN DAMAGED BY CONSTRUCTION ACTIVITIES. WHEN THE WASHOUT AREA IS ADJACENT TO A PAVED ROAD, THE PAVED ROAD SHOULD BE INSPECTED FOR ACCUMULATED CONCRETE WASTE. ANY ACCUMULATED CONCRETE WASTE ON THE ROAD, CURB, OR GUTTER SHOULD BE REMOVED AND PROPERLY DISPOSED.

EROSION CONTROL BLANKET: THE BLANKET AND STAPLES SHOULD BE INSPECTED FREQUENTLY AND SHALL BE INSTALLED TO THE ILLINOIS URBAN MANUAL, UNLESS OTHERWISE INSTRUCTED BY THE MANUFACTURER. EROSION OCCURRING UNDERNEATH THE BLANKET SHOULD BE BACK-FILLED AND SEEDED WITH THE APPROPRIATE SEED MIX. ADDITIONAL BMP'S MAY NEED TO BE INSTALLED TO REDUCE EROSION UNDER THE BLANKET.

SILT FILTER 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. 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. INSTANCES WHEN AREAS OF SILT FENCE CONTINUALLY FAIL, REPLACE SILT FENCE WITH ANOTHER BMP AS SEEN FIT.

INLET PROTECTION: INLET FILTERS SHOULD BE INSPECTED FOR PROPER FILTERING. STORMWATER INLET STRUCTURE PROTECTION MEASURES SHALL BE CLEANED OR REMOVED AND REPLACED AS SEDIMENT ACCUMULATES, FILTERS BECOME CLOGGED, FILTER BAGS ARE MORE THAN 50% FILLED, OR PERFORMANCE IS COMPROMISED. SEDIMENT ACCUMULATIONS ADJACENT TO INLET PROTECTION MEASURES SHALL BE CLEANED BY THE END OF THE SAME BUSINESS DAY ON WHICH IT IS FOUND OR BY THE END OF THE FOLLOWING BUSINESS DAY IF REMOVAL IN THE SAME BUSINESS DAY IS NOT FEASIBLE. DO NOT PUNCTURE HOLES IN FILTERS IF PONDING OCCURS.

SEDIMENT BASIN: SEDIMENT BASINS SHALL BE CLEANED WHEN ACCUMULATED SEDIMENT HAS REACHED 50% CAPACITY. POST CONSTRUCTION CLEANING OF ACCUMULATED SEDIMENT SHALL BE CONDUCTED IF THE BASIN IS TO REMAIN AFTER CONSTRUCTION IS COMPLETE.

INSPECTIONS

THE OWNER SHALL DESIGNATE A QUALIFIED PERSONNEL TO BE RESPONSIBLE FOR SEDIMENT AND EROSION CONTROL OBSERVATION REPORTING. THIS QUALIFIED PERSONNEL SHALL MEET THE REQUIREMENTS NOTED IN THE ILR10 PERMIT CONDITIONS AND LOCAL CODES. SITE OBSERVATIONS SHOULD OCCUR AT LEAST EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM OR BY THE END OF THE FOLLOWING BUSINESS OR WORK DAY THAT IS 0.5 INCHES OR GREATER, OR EQUIVALENT SNOWFALL. OBSERVATIONS MAY BE REDUCED TO ONCE A MONTH WHEN CONSTRUCTION ACTIVITIES HAVE CEASED DUE TO FROZEN CONDITIONS. WEEKLY OBSERVATIONS SHOULD RECOMMENCE WHEN CONSTRUCTION ACTIVITIES ARE CONDUCTED, OR IF THERE IS 0.5" OR GREATER RAIN EVENT, OR A DISCHARGE DUE TO SNOWMELT OCCURS. AREAS INACCESSIBLE DURING INSPECTIONS DUE TO FLOODING OR OTHER UNSAFE CONDITIONS SHALL BE INSPECTED WITHIN 72 HOURS OF BECOMING ACCESSIBLE.

SITE OBSERVATION REPORTS SHOULD BE MAINTAINED ONSITE AS PART OF THE SWPPP. EACH SITE OBSERVATION SHALL INCLUDE THE FOLLOWING COMPONENTS:

- A. DISTURBED AREAS AND AREAS USED FOR THE STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE CHECKED FOR EVIDENCE OF, OR POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. THE EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY HAVE BEEN INSTALLED AND ARE OPERATING CORRECTLY. WHERE DISCHARGE POINTS ARE ACCESSIBLE, THEY SHOULD BE CHECKED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO THE RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHOULD BE CHECKED FOR OFF-SITE SEDIMENT TRACKING. ALL PUMPING OPERATIONS AND ALL OTHER POTENTIAL NON-STORM WATER DISCHARGES SHOULD BE OBSERVED.
- B. BASED ON THE RESULTS OF THE SITE OBSERVATION, THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IDENTIFIED, AND THE POLLUTION PREVENTION MEASURES DESCRIBED IN THIS PLAN SHALL BE REVISED AS APPROPRIATE, AS SOON AS PRACTICABLE AFTER THE OBSERVATION. THE MODIFICATIONS, IF ANY, SHALL PROVIDE FOR TIMELY IMPLEMENTATION OF ANY CHANGES TO THE PLAN WITHIN 7 CALENDAR DAYS FOLLOWING THE SITE OBSERVATION.
- C. A REPORT SUMMARIZING THE SCOPE OF THE OBSERVATION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE OBSERVATION, THE DATE(S) OF THE OBSERVATION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PARAGRAPH B ABOVE SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE OF FINAL STABILIZATION OR PERMIT COVERAGE IS TERMINATED. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART VI.G (SIGNATORY REQUIREMENTS) OF THE ILR10 NPDES PERMIT.
- D. THE OWNER SHALL NOTIFY THE APPROPRIATE AGENCY FIELD OPERATIONS SECTION OFFICE BY EMAIL AT EPA.SWNONCOMP@ILLINOIS.GOV, TELEPHONE, OR FAX WITHIN 24 HOURS OF ANY INCIDENCE OF NONCOMPLIANCE FOR ANY VIOLATION OF THE STORM WATER POLLUTION PREVENTION PLAN OBSERVED DURING A SITE OBSERVATION, OR FOR VIOLATIONS OF ANY CONDITION OF THE PERMIT. THE OWNER SHALL COMPLETE AND SUBMIT WITHIN 5 DAYS AN INCIDENCE OF NONCOMPLIANCE REPORT FOR ANY VIOLATION OF THE STORM WATER POLLUTION PREVENTION PLAN OBSERVED DURING AN INSPECTION CONDUCTED. SUBMISSION SHALL BE ON FORMS PROVIDED BY THE AGENCY AND INCLUDE SPECIFIC INFORMATION ON THE CAUSE OF NONCOMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NONCOMPLIANCE, AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT, WHICH MAY HAVE RESULTED FROM THE NONCOMPLIANCE.
- E. ALL REPORTS OF NONCOMPLIANCE SHALL BE SIGNED BY A RESPONSIBLE AUTHORITY AS DEFINED IN PART VI.G OF THE ILR10 NPDES PERMIT (SIGNATORY REQUIREMENTS).
- F. ALL REPORTS OF NONCOMPLIANCE SHALL BE MAILED TO THE AGENCY AT THE FOLLOWING ADDRESS: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF WATER POLLUTION CONTROL COMPLIANCE ASSURANCE SECTION 1021 NORTH GRAND AVENUE EAST POST OFFICE BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276

NON-STORM WATER DISCHARGES

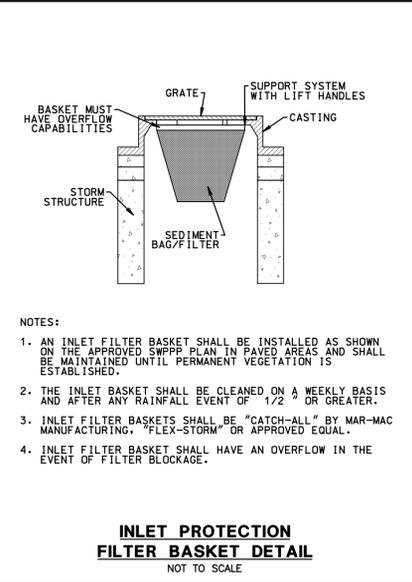
NON-STORM WATER FLOWS THAT MAY BE COMBINED WITH STORM WATER DISCHARGES ARE INCLUDED WITHIN THIS PLAN. THESE DISCHARGES INCLUDE: DISCHARGES FROM FIRE FIGHTING ACTIVITIES; FIRE HYDRANT FLUSHINGS; WATERS USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED; WATERS USED TO CONTROL DUST; POTABLE WATER SOURCES INCLUDING UNCONTAMINATED WATERLINE FLUSHINGS; LANDSCAPE IRRIGATION DRAINAGES; ROUTINE EXTERNAL BUILDING WASHDOWN WHICH DOES NOT USE DETERGENTS; PAVEMENT WASH WATERS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS ALL SPILLED MATERIAL HAS BEEN REMOVED) AND WHERE DETERGENTS ARE NOT USED; UNCONTAMINATED AIR CONDITIONING CONDENSATE; UNCONTAMINATED SPRING WATER; UNCONTAMINATED GROUND WATER; AND FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH AS SOLVENTS.

THE FOLLOWING NON-STORM WATER DISCHARGES ARE PROHIBITED: CONCRETE AND WASTEWATER FROM WASHOUT OF CONCRETE (UNLESS MANAGED BY AN APPROPRIATE CONTROL); WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS, FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE, SOAPS, SOLVENTS, OR DETERGENTS, TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR OTHER RELEASE, OR ANY OTHER POLLUTANT THAT COULD CAUSE OR TEND TO CAUSE WATER POLLUTION.

DISCHARGES FROM DEWATERING ACTIVITIES, INCLUDING DISCHARGES FROM DEWATERING TRENCHES AND EXCAVATIONS ARE ALLOWABLE IF MANAGED BY APPROPRIATE CONTROLS.

NATURAL BUFFERS

PROJECTS WITHIN 50 FEET OF WATERS OF THE UNITED STATES MUST PROVIDE AN UNDISTURBED NATURAL 50 FOOT BUFFER OR OTHER EROSION AND SEDIMENT CONTROL MEASURES AS IDENTIFIED OR OTHERWISE COORDINATED WITH APPLICABLE LOCAL AND STATE PERMITTING AGENCIES.



- NOTES:
1. AN INLET FILTER BASKET SHALL BE INSTALLED AS SHOWN ON THE APPROVED SWPPP PLAN IN PAVED AREAS AND SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
 2. THE INLET BASKET SHALL BE CLEANED ON A WEEKLY BASIS AND AFTER ANY RAINFALL EVENT OF 1/2" OR GREATER.
 3. INLET FILTER BASKETS SHALL BE "CATCH-ALL" BY MAR-MAC MANUFACTURING, "FLEX-STORM" OR APPROVED EQUAL.
 4. INLET FILTER BASKET SHALL HAVE AN OVERFLOW IN THE EVENT OF FILTER BLOCKAGE.

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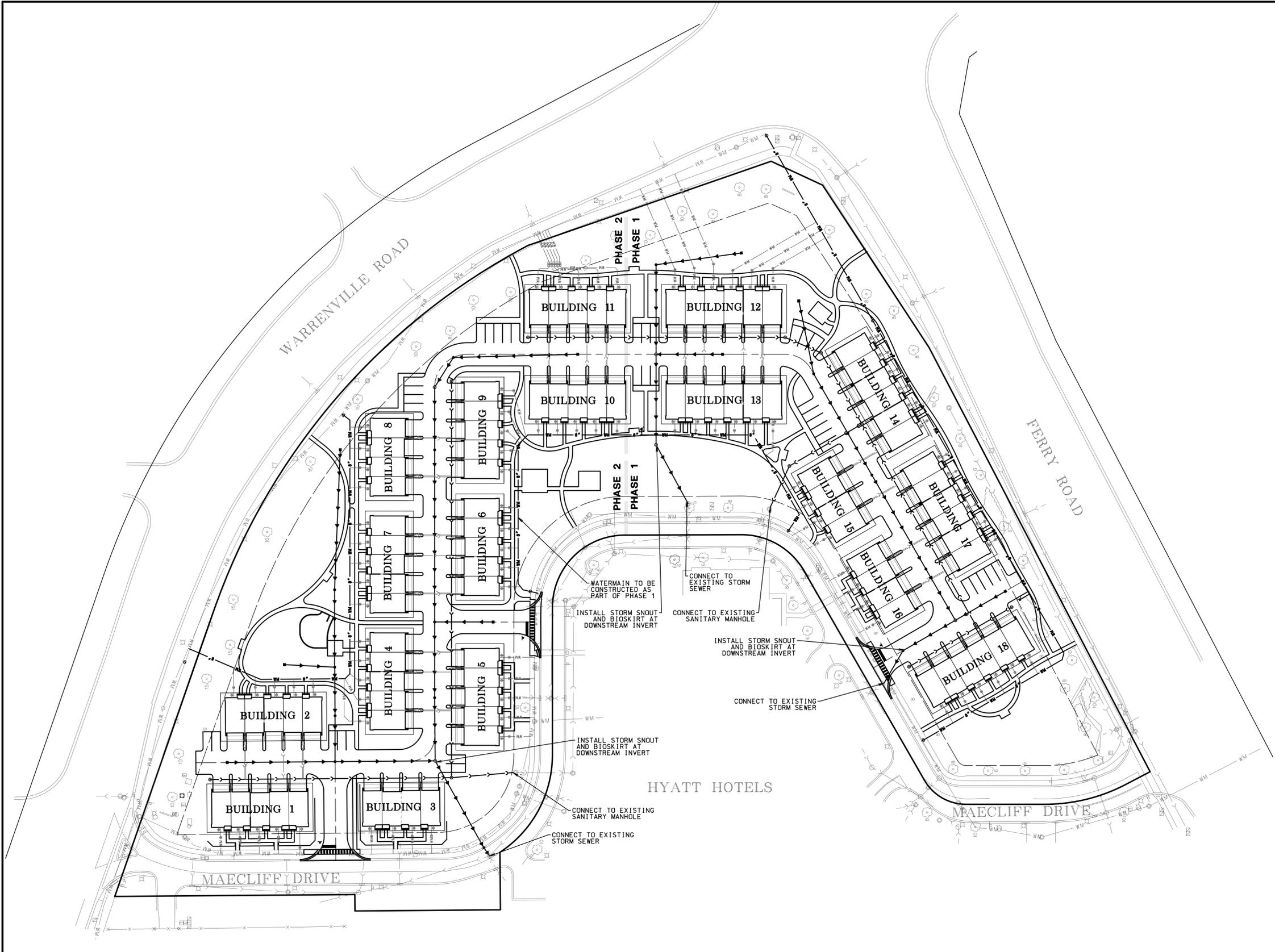
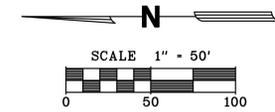


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APPROVED	JAD		
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SCALE	N.T.S.	BY	
06/12/25	REVISD PER CITY COMMENTS		
DATE	DESCRIPTION OF REVISION		

**SWPPP SPECIFICATIONS
 CANTERA POINT
 WARRENVILLE, ILLINOIS**

SHEET	9 OF 18
PROJECT NUMBER:	4821
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- UNDERGROUND UTILITY GENERAL NOTES
1. ALL MANHOLES AND CATCH BASINS SHALL BE 48-INCH DIAMETER, UNLESS OTHERWISE INDICATED.
 2. ALL SANITARY SEWER, LESS THAN 15 FEET DEEP, SHALL BE PVC, SDR 26, UNLESS OTHERWISE INDICATED OR APPROVED EQUAL LISTED WITHIN THE CONSTRUCTION SPECIFICATIONS AS APPROVED BY THE MUNICIPALITY. ALL SANITARY SEWERS GREATER THAN 15- FEET DEEP, SHALL BE PVC, SDR 21, UNLESS OTHERWISE INDICATED. PVC SANITARY SEWER SHALL HAVE ELASTOMERIC JOINTS IN CONFORMANCE WITH ASTM D-3212.
 3. ALL WATER MAIN SHALL BE POLYVINYL CHLORIDE PIPE, SDR 25, PRESSURE CLASS 165 PSI, AWWA, C-900 OR DUCTILE IRON PIPE, CLASS 52, AWWA C-600 WITH "PUSH-ON" TYPE JOINTS, UNLESS OTHERWISE INDICATED. ALL WATER MAIN SHALL HAVE A MINIMUM OF 5'-6" OF COVER FROM TOP OF WATERMAIN TO FINISHED GRADE.
 4. ALL STORM SEWERS SHALL BE REINFORCED CONCRETE PIPE, MINIMUM CLASS 111, WITH ASTM C76 PIPE AND C443 JOINTS, UNLESS OTHERWISE INDICATED. ALL STORM SEWERS WHICH ARE LOCATED IN THE SIDE YARD SHALL HAVE "O" RING GASKETED JOINTS. ALL OTHER SEWERS SHALL HAVE BITUMINOUS MASTIC JOINTS.
 5. GRANULAR TRENCH BACKFILL (CA-6) SHALL BE PROVIDED FOR ALL SANITARY, WATER AND STORM UTILITIES WHEN THE TRENCH LIMITS FALL WITHIN TWO FEET OF STREETS, SIDEWALKS, DRIVEWAYS AND AS NOTED ON THE SANITARY TRENCH DETAIL ON PAGE X. ALL TRENCHES WITHIN COOK COUNTY RIGHT-OF-WAY MUST BE TRENCH BACKFILLED WITH FA-6 SAND IN ACCORDANCE WITH ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
 6. OVERHEAD SANITARY SEWER IS REQUIRED FOR ALL HOMES.
 7. ALL WATERMAIN AND WATER SERVICE LINES SHALL BE PROTECTED FROM OTHER UTILITIES IN ACCORDANCE WITH SECTION 41-2.01 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS.
 8. ALL DRAIN TILES ENCOUNTERED DURING MASS GRADING UTILITY WORK MUST BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM. A RECORD MUST BE KEPT OF ANY DRAIN TILE ENCOUNTERED, TO BE INCLUDED WITH THE RECORD DRAWINGS.
 9. ALL UNDERGROUND UTILITY INFORMATION NOTED ON THE PLANS IS BASED ON INFORMATION OBTAINED FROM THE MUNICIPALITY, UTILITY COMPANIES OR FIELD MEASUREMENTS. THIS INFORMATION, WHILE BELIEVED TO BE COMPLETE AND ACCURATE, CANNOT BE GUARANTEED.
 10. CONTRACTOR SHALL VERIFY ALL BUILDING SERVICE LOCATIONS AND SIZES WITH ARCHITECTURAL PLANS PRIOR TO START OF CONSTRUCTION AND NOTIFY THE ENGINEER OR OWNER OF ANY DISCREPANCIES.
 11. CONTRACTOR TO VERIFY CANOPY AND ROOF DRAIN CONNECTION LOCATIONS AND SIZES WITH ARCHITECTURAL PLANS BEFORE CONSTRUCTION.
 12. SEE ARCHITECTURAL DRAWINGS FOR TRENCH DRAIN DETAILS AND SEWER CONNECTION LOCATIONS.
 13. CONTRACTOR SHALL CONTACT JULIE (1-800-892-0123) PRIOR TO START OF CONSTRUCTION TO LOCATE ALL UTILITIES WITHIN THE RIGHT-OF-WAY.
 14. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING UTILITIES AT ALL PROPOSED CONNECTIONS PRIOR TO START OF CONSTRUCTION AND NOTIFY THE ENGINEER AND OWNER OF ANY DISCREPANCIES.
 15. FIELD LOCATION OF ALL HOUSE SERVICES TO BE VISIBLY DEMARKED, SUPPLIED BY CONTRACTOR AND SHOWN ON RECORD DRAWINGS. SEE GENERAL SPECIFICATIONS SHEET FOR MARKING WATER AND SANITARY SERVICES ON CURB.
 16. A TEN (10) FOOT MINIMUM SEPARATION SHALL BE PROVIDED BETWEEN THE WATERMAIN SERVICE AND THE SANITARY OR STORM SEWER SERVICES.
 17. IN CASE OF CONFLICTS, THE MUNICIPALITY STANDARDS AND NOTES SHALL TAKE PRECEDENCE.
 18. PLUMBING CONTRACTOR TO MAKE ALL CONNECTIONS WITH BUILDING SERVICES CONSTRUCTED BY UTILITY CONTRACTOR. SITE UTILITY CONTRACTOR TO CONSTRUCT SERVICES TO WITHIN 5- FEET OF BUILDING, EXCEPT WATER INTO BUILDING 1-FOOT ABOVE FLOOR WITH BLIND FLANGE AND PROVIDE TESTING.
 19. EXISTING PAVEMENT REMOVED FOR UTILITY CONSTRUCTION SHALL BE DONE BY THE RESPECTIVE UTILITY COMPANY AND PAID FOR SEPARATELY BY THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THIS WORK INCIDENTAL TO THE CONTRACT.
 22. EXISTING OR PROPOSED MANHOLES, CATCH BASINS, INLETS AND VALVE VAULTS REQUIRING OVER 12-INCHES OF ADJUSTMENT RINGS SHALL USE AN ADDITIONAL BARREL SECTION TO MAINTAIN A MAXIMUM OF 12-INCH TOTAL ADJUSTMENT RING DEPTH.

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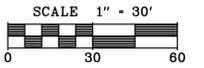
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**OVERALL UTILITY PLAN
 CANTERA POINT
 WARRENVILLE, ILLINOIS**

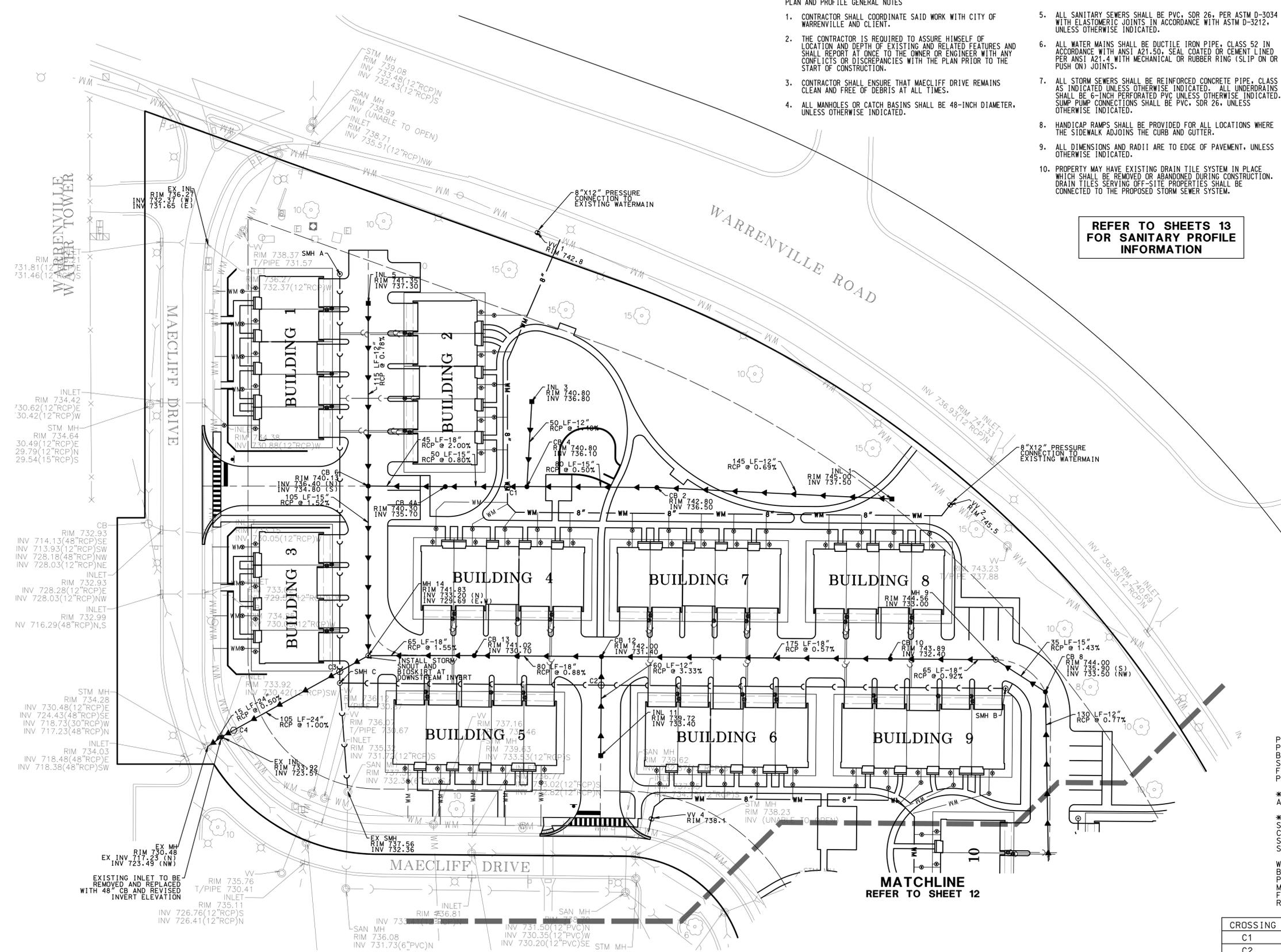
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PLAN AND PROFILE GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE SAID WORK WITH CITY OF WARRENVILLE AND CLIENT.
2. THE CONTRACTOR IS REQUIRED TO ASSURE HIMSELF OF LOCATION AND DEPTH OF EXISTING AND RELATED FEATURES AND SHALL REPORT AT ONCE TO THE OWNER OR ENGINEER WITH ANY CONFLICTS OR DISCREPANCIES WITH THE PLAN PRIOR TO THE START OF CONSTRUCTION.
3. CONTRACTOR SHALL ENSURE THAT MAECLIFF DRIVE REMAINS CLEAN AND FREE OF DEBRIS AT ALL TIMES.
4. ALL MANHOLES OR CATCH BASINS SHALL BE 48-INCH DIAMETER, UNLESS OTHERWISE INDICATED.
5. ALL SANITARY SEWERS SHALL BE PVC, SDR 26, PER ASTM D-3034 WITH ELASTOMERIC JOINTS IN ACCORDANCE WITH ASTM D-3212, UNLESS OTHERWISE INDICATED.
6. ALL WATER MAINS SHALL BE DUCTILE IRON PIPE, CLASS 52 IN ACCORDANCE WITH ANSI A21.50, SEAL COATED OR CEMENT LINED PER ANSI A21.4 WITH MECHANICAL OR RUBBER RING (SLIP ON OR PUSH ON) JOINTS.
7. ALL STORM SEWERS SHALL BE REINFORCED CONCRETE PIPE, CLASS AS INDICATED UNLESS OTHERWISE INDICATED. ALL UNDERDRAINS SHALL BE 6-INCH PERFORATED PVC UNLESS OTHERWISE INDICATED. SUMP PUMP CONNECTIONS SHALL BE PVC, SDR 26, UNLESS OTHERWISE INDICATED.
8. HANDICAP RAMP SHALL BE PROVIDED FOR ALL LOCATIONS WHERE THE SIDEWALK ADJOINS THE CURB AND GUTTER.
9. ALL DIMENSIONS AND RADII ARE TO EDGE OF PAVEMENT, UNLESS OTHERWISE INDICATED.
10. PROPERTY MAY HAVE EXISTING DRAIN TILE SYSTEM IN PLACE WHICH SHALL BE REMOVED OR ABANDONED DURING CONSTRUCTION. DRAIN TILES SERVING OFF-SITE PROPERTIES SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM.



REFER TO SHEETS 13 FOR SANITARY PROFILE INFORMATION



PROPOSED UTILITIES TO BE CONSTRUCTED TO PROVIDE A MINIMUM 18" OF SEPARATION BETWEEN WATER MAIN AND SANITARY SEWER OR STORM SEWER. EXISTING WATER MAIN TO BE FIELD LOCATED AND ELEVATION VERIFIED PRIOR TO START OF CONSTRUCTION.

* INDICATES WATERMAIN MUST BE LOWERED TO ACHIEVE REQUIRED SEPARATION.

** WHEN WATER MAIN IS BENEATH STORM SEWER OR SANITARY SEWER, SEWER MUST BE CONSTRUCTED WITH WATER QUALITY PIPE PER STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS.

WMO - SANITARY SEWER OR STORM SEWER MUST BE CONSTRUCTED WITH WATER MAIN QUALITY PIPE FOR 10- FEET ON EITHER SIDE OF WATER MAIN. REFER TO NOTE G.21.D ON SHEET 18 FOR WATER MAIN QUALITY MATERIAL REQUIREMENTS.

CROSSING	BTM OF PIPE	TOP OF PIPE	SEPARATION
C1	STM 735.75	WTR 734.25	1.50'*
C2	SAN 733.96	STM 732.97	0.99'
C3	SAN 733.18	STM 731.49	1.69'
C4	WTR 728.39	STM 725.65	2.74'

MATCHLINE REFER TO SHEET 12

MATCHLINE REFER TO SHEET 12

HYATT HOTELS

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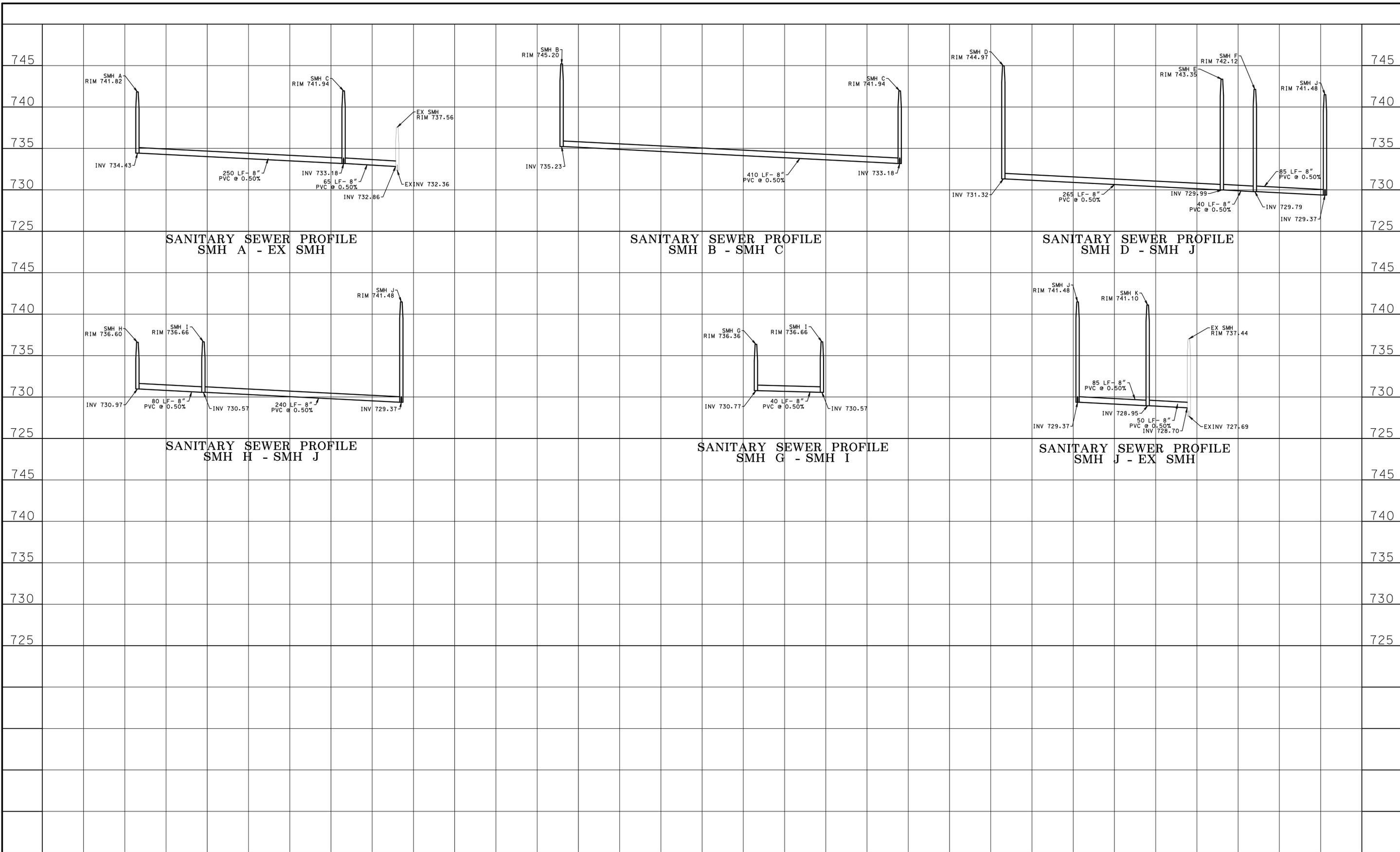
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UTILITY PLAN - NORTH
 CANTERA POINT
 WARRENVILLE, ILLINOIS

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SANITARY SEWER PROFILE
SMH A - EX SMH

SANITARY SEWER PROFILE
SMH B - SMH C

SANITARY SEWER PROFILE
SMH D - SMH J

SANITARY SEWER PROFILE
SMH H - SMH J

SANITARY SEWER PROFILE
SMH G - SMH I

SANITARY SEWER PROFILE
SMH J - EX SMH

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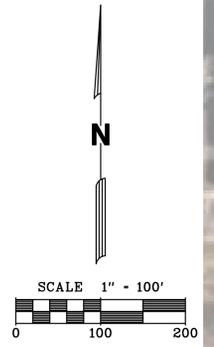
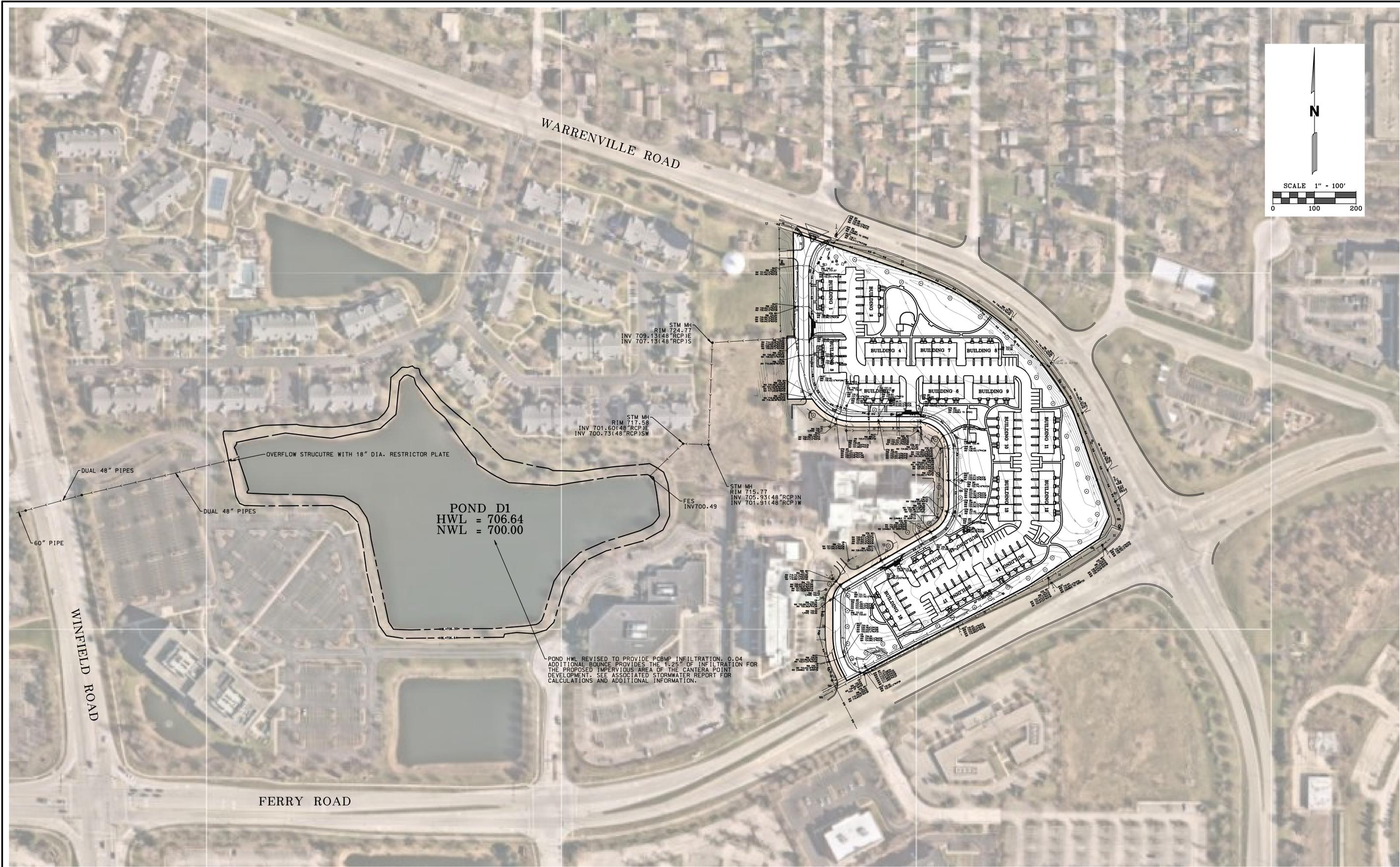


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**SANITARY PROFILE
CANTERA POINT
WARRENVILLE, ILLINOIS**

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13 OF 18
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POND HWL REVISED TO PROVIDE POBMP INFILTRATION. 0.04
 ADDITIONAL BOUNCE PROVIDES THE 1.25' OF INFILTRATION FOR
 THE PROPOSED IMPERVIOUS AREA OF THE CANTERA POINT
 DEVELOPMENT. SEE ASSOCIATED STORMWATER REPORT FOR
 CALCULATIONS AND ADDITIONAL INFORMATION.

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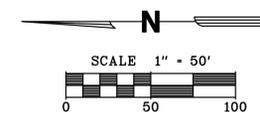
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**STORMWATER OUTFALL
 CANTERA POINT
 WARRENVILLE, ILLINOIS**

SHEET
14 OF 18
 PROJECT NUMBER: 4821
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 ILLINOIS FIRM LICENSE 184-002694

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 M:\14261\Engineering\Projects\14-Existing Stormwater Outfall and Pond\

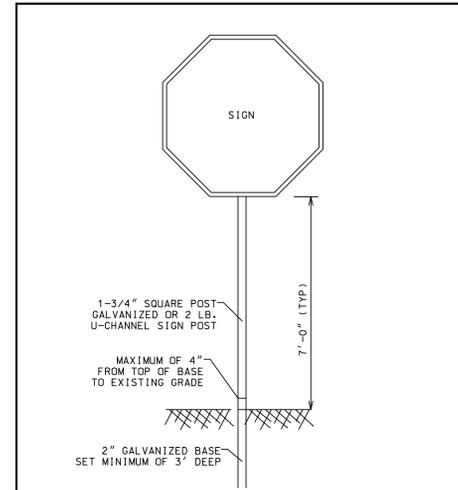
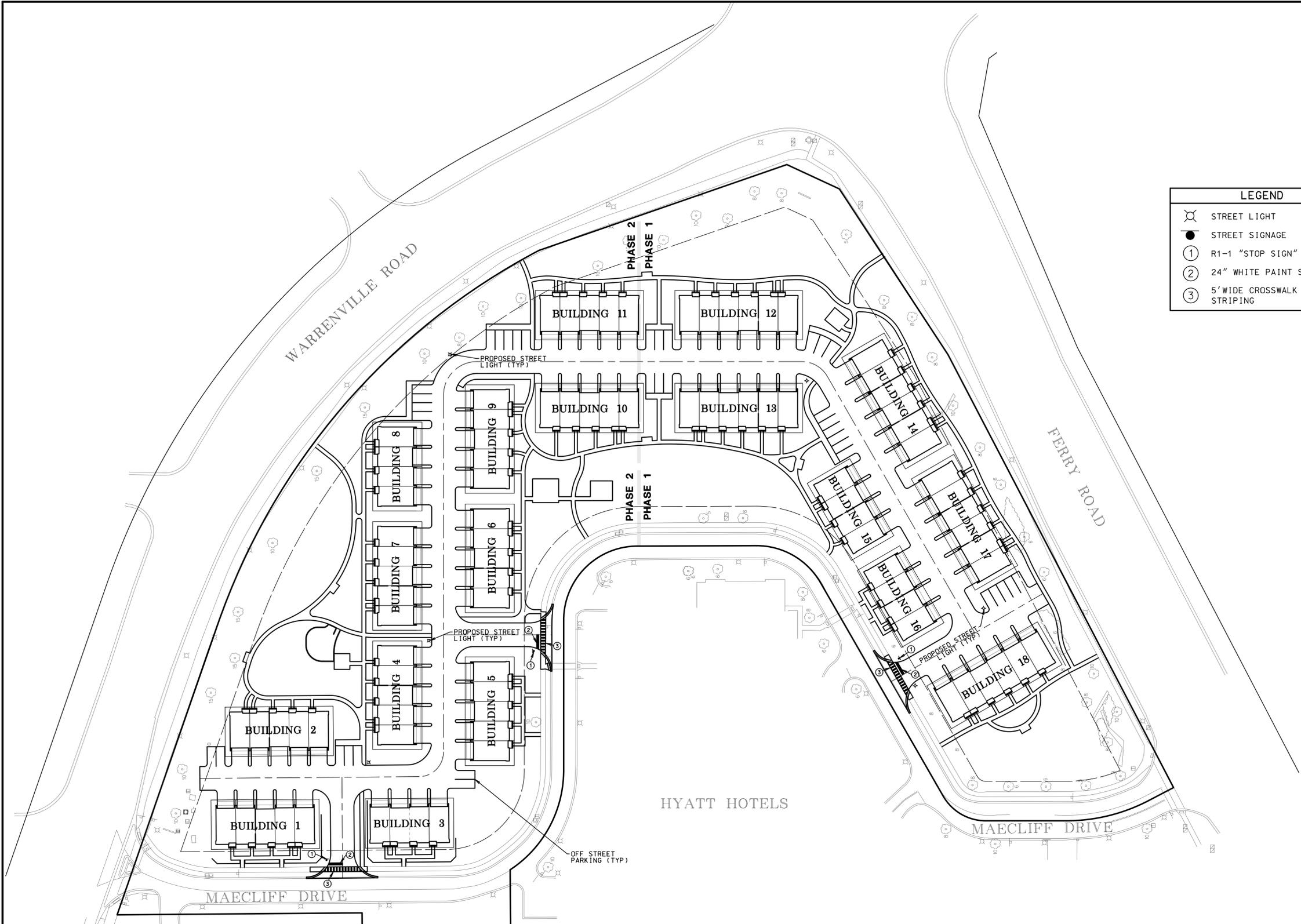


- SIGNAGE AND STRIPING GENERAL NOTES
1. STOP BARS SHALL BE INSTALLED AT ALL STOP LOCATIONS IN ACCORDANCE WITH THE LATEST EDITION OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 2. ALL STOP SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

REFER TO LANDSCAPE PLANS FOR MONUMENT SIGNS AND HARDSCAPE DETAILS

REFER TO PHOTOMETRIC PLAN FOR ADDITIONAL LIGHTING DETAIL INCLUDING PHOTOMETRIC ANALYSIS AND EXISTING STREET LIGHT LOCATIONS

LEGEND	
	STREET LIGHT
	STREET SIGNAGE
	R1-1 "STOP SIGN" (30"x30")
	24" WHITE PAINT STOP BAR
	5' WIDE CROSSWALK PAVEMENT STRIPING



Job Name: _____ Job Location: _____ Quote No: _____ Type: _____

Catalog Number: **HOLOPHANE**
GFL3 P20 40K MVOLT ASY QSM BK STD 20N 1A TN BK BACF QSM BK SLA 15 SL5 SR G12 BK ANS ASD14030

View	Symbol	Notes
0° View		
90° View		

Component	Quantity	Description
Sign Post	1	1-3/4" Square Post Galvanized or 2 lb. U-Channel Sign Post
Sign	1	30" x 30" R1-1 Stop Sign
Base	1	2" Galvanized Base Set Minimum of 3' Deep

WARRENVILLE WATER TOWER

CLIENT: **D.R. HORTON**
America's Builder
D.R. HORTON, INC.-MIDWEST
1750 E. GOLF ROAD, SUITE 925
SCHAUMBURG, ILLINOIS 60173

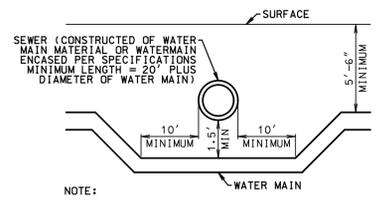
DATE	DESCRIPTION OF REVISION	BY
06/12/25	REVISED PER CITY COMMENTS	RMB

DESIGNED	JAD
DRAWN	JD
APPROVED	JAD
DATE	03/14/2025
SCALE	1" = 50'

STREET LIGHTING, SIGNAGE, AND STRIPING PLAN
CANTERA POINT
WARRENVILLE, ILLINOIS

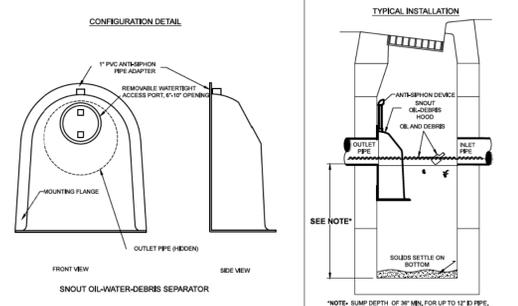
SHEET
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PROJECT NUMBER: 4821
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6/20/2025 12:57:17 PM In: 1421 Lighting Plans, Lighting and Signage Plans



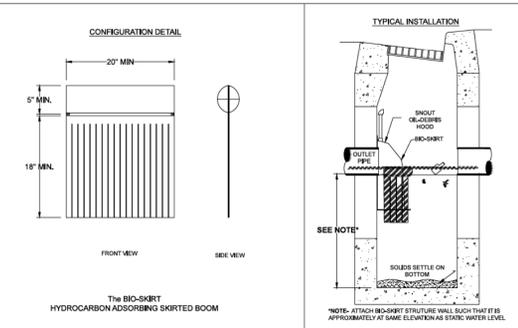
NOTE:
ALL FITTINGS REQUIRED FOR LOWERING OF WATER MAIN SHALL BE RESTRAINED JOINTS.

WATER MAIN LOWERING DETAILS
NOT TO SCALE



NOTES:
1. ALL HOODS AND TRAPS FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE AS MANUFACTURED BY BEST MANAGEMENT PRODUCTS, INC., 9 MATHEWS DRIVE, UNIT A-2, EAST MADISON, CT 06027. TOLL FREE: (800) 504-4008 OR (860) 434-2277. FAX: (877) 434-3197. WEB SITE: www.bmp.com OR PRE-APPROVED EQUAL.
2. ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH 80 GEL COAT EXTERIOR FINISH WITH A MINIMUM 1/16" LAMINATE THICKNESS.
3. ALL HOODS SHALL BE EQUIPPED WITH A WATER TIGHT ACCESS PORT A MOUNTING FLANGE, AND AN ANTI-SIPHON VENT PIPE AND ELBOW AS SHOWN. (SEE CONFIGURATION DETAIL).
4. THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY OUTLET PIPE SIZE AS PER MANUFACTURER'S RECOMMENDATION (SNOUT SIZE ALWAYS LARGER THAN PIPE SIZE).
5. THE BOTTOM OF THE HOOD SHALL EXTEND DOWNWARD A MINIMUM DISTANCE EQUAL TO 1/2 THE OUTLET PIPE DIAMETER WITH A MINIMUM DISTANCE OF 4" FOR 3" OR 4" I.D. HOOD.
6. THE ANTI-SIPHON VENT SHALL EXTEND ABOVE HOOD BY MINIMUM OF 3" AND A MAXIMUM OF 12" ACCORDING TO STRUCTURE CONFIGURATION.
7. THE SURFACE OF THE STRUCTURE WHERE THE HOOD IS MOUNTED SHALL BE FINISHED SMOOTH AND FREE OF LOOSE MATERIAL AND PILE SHALL BE FINISHED FLOUSE TO WALL.
8. ALL STRUCTURE JOINTS SHALL BE WATER TIGHT.
9. THE HOOD SHALL BE SECURELY ATTACHED TO STRUCTURE WALL WITH 2" STAINLESS STEEL BOLTS AND OIL RESISTANT GASKET AS SUPPLIED BY MANUFACTURER. (SEE INSTALLATION DETAIL).
10. INSTALLATION INSTRUCTIONS SHALL BE FURNISHED WITH MANUFACTURER SUPPLIED INSTALLATION KIT SHALL INCLUDE:
A. INSTALLATION INSTRUCTIONS
B. PVC ANTI-SIPHON VENT PIPE AND ADAPTER
C. PVC ANTI-SIPHON VENT PIPE AND ADAPTER
D. 3/8" STAINLESS STEEL BOLTS
E. ANCHOR SHIELDS

US Patent # 6126817, 7951294, 7951966, 8512556
Canada Patent # 2261468, 2602106, 2601106 others pending

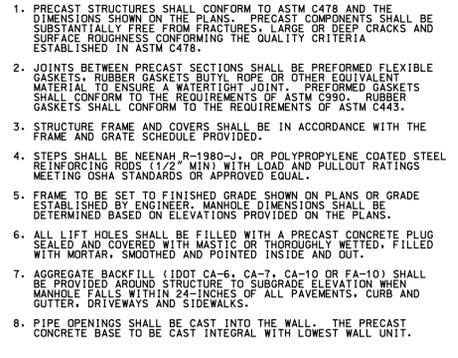
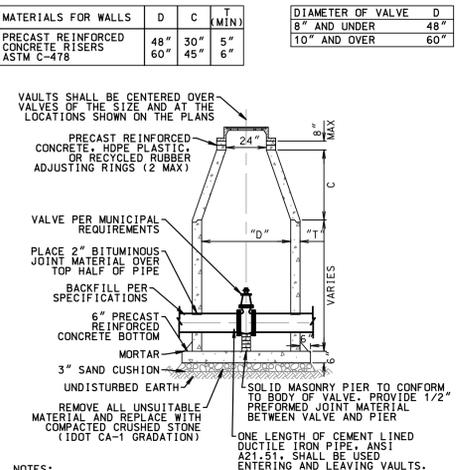


NOTES:
1. All new and/or existing catch basins or water quality structures shall be outfitted with the Bio-Skirt Hydrocarbon adsorbent skirted boom as manufactured by BEST MANAGEMENT PRODUCTS, INC., 9 MATHEWS DRIVE, UNIT A-2, EAST MADISON, CT 06027. TOLL FREE: (800) 504-4008 OR (860) 434-2277. FAX: (877) 434-3197. WEB SITE: www.bmp.com OR PRE-APPROVED EQUAL.
2. The skirted boom shall be comprised of an upper boom portion that is an adsorbent fabric covered floating boom of 1/2" minimum diameter with an integral lower skirt portion comprised of fabric booms of an 18" minimum length that hang beneath the boom.
3. All booms shall be made from geotextile quality neoprene filtration fabric manufactured from 100% recycled fabric with a 1/2" minimum thickness.
4. All fabric shall be treated with a covalently surface bonded non-leaching antimicrobial agent and booms shall include a bio-indicator "colorimeter" which preserves the service life of the boom.
5. The skirted boom shall be installed in front of the pipe and shall be deployed with the SNOUT. The skirted boom shall be secured to the structure with 3/8" stainless steel bolts and elastic cord as supplied in the installation kit.
6. For applications where multiple Bio-Skirts are deployed together for larger SNOUTs (e.g., on 24" and larger SNOUTs) per acceptable design, connect skirting grommets to grommet with hooks and cord as supplied in the installation kit.

Typical Deployment Schedule:
12-30" SNOUT: One Bio-Skirt
24-30" SNOUT: Two Bio-Skirts
36-48" SNOUT: Three Bio-Skirts
72" and up: Call 800-504-4008 for guidance.

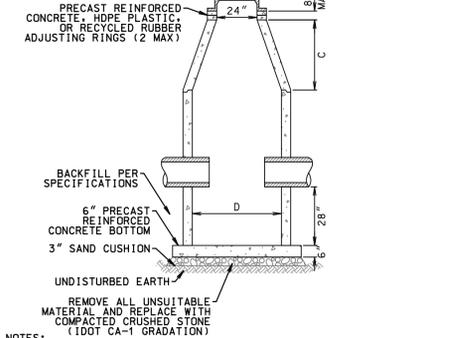
OIL ADSORBENT SPECIFICATION FOR CATCH BASINS AND WATER QUALITY STRUCTURES

DESCRIPTION	DATE	SCALE
BIO-SKIRT (TM) SPECIFICATION AND INSTALLATION (TYPICAL)	10/29/14	NONE
DRAWING NUMBER	SP-BIO	



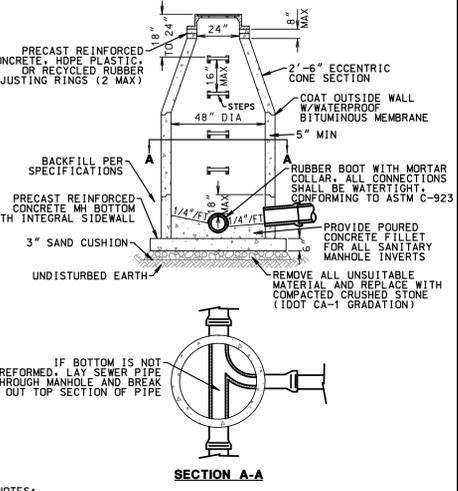
VALVE VAULT DETAIL
NOT TO SCALE

MATERIALS FOR WALLS	D	C	T (MIN)
PRECAST REINFORCED CONCRETE RISERS ASTM C-478	36"	15"	4"
	48"	30"	5"
	60"	45"	5"



CATCH BASIN DETAIL
NOT TO SCALE

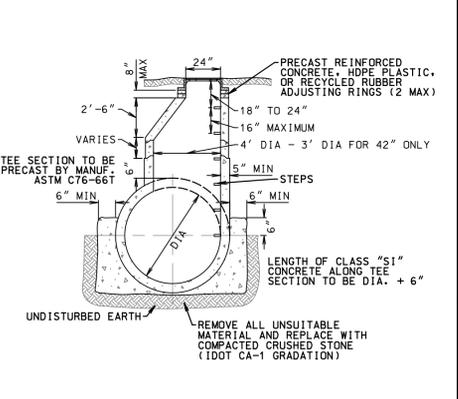
DESCRIPTION	DATE	SCALE
BIO-SKIRT (TM) SPECIFICATION AND INSTALLATION (TYPICAL)	10/29/14	NONE
DRAWING NUMBER	SP-BIO	



48" SANITARY MANHOLE - TYPE A
NOT TO SCALE

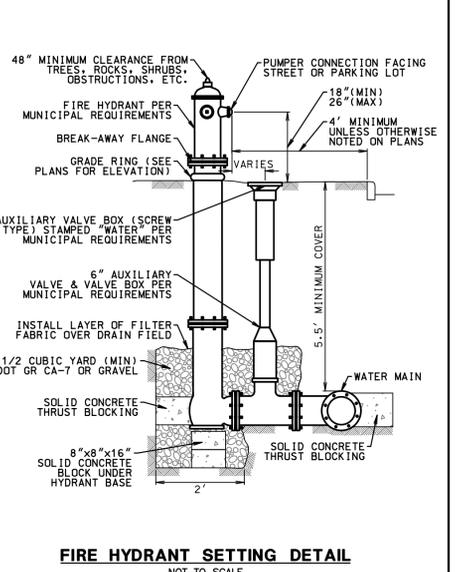
Diagram showing tee manhole detail with notes.

NOTES:
1. PRECAST MANHOLES AND STRUCTURES SHALL CONFORM TO ASTM C478 AND THE DIMENSIONS SHOWN ON THE PLANS. PRECAST COMPONENTS SHALL BE SUBSTANTIALLY FREE FROM FRACTURES, LARGE OR DEEP CRACKS AND SURFACE ROUGHNESS CONFORMING TO THE QUALITY CRITERIA ESTABLISHED IN ASTM C478.
2. PRECAST SECTIONS TO BE JOINED WITH TONGUE AND GROOVE JOINTS, SEaled WITH A CONTINUOUS LAYER OF PREFORMED FLEXIBLE GASKETS, RUBBER GASKETS BUTYL ROPE OR OTHER EQUIVALENT BITUMINOUS MATERIAL PER THE STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION.
3. STORM MANHOLE FRAME AND COVERS SHALL BE IN ACCORDANCE WITH THE FRAME AND GRATE SCHEDULE PROVIDED.
4. STEPS SHALL BE NEENAH R-1980-J, OR POLYPROPYLENE COATED STEEL REINFORCING RODS (1/2" MIN) WITH LOAD AND PULLOUT RATINGS MEETING OSHA STANDARDS OR APPROVED EQUAL.
5. FRAME TO BE SET TO FINISHED GRADE SHOWN ON PLANS OR GRADE ESTABLISHED BY ENGINEER. MANHOLE DIMENSIONS SHALL BE DETERMINED BASED ON ELEVATIONS PROVIDED ON THE PLANS.
6. ALL LIFT HOLES SHALL BE FILLED WITH A PRECAST CONCRETE PLUG SEALED AND COVERED WITH MASTIC OR THOROUGHLY WETTED, FILLED WITH MORTAR, SMOOTHED AND POINTED INSIDE AND OUT.
7. AGGREGATE BACKFILL (IDOT CA-6, CA-7, CA-10 OR FA-10) SHALL BE PROVIDED AROUND STRUCTURE TO SUBGRADE ELEVATION WHEN MANHOLE FALLS WITHIN 24-INCHES OF ALL PAVEMENTS, CURB AND GUTTER, DRIVEWAYS AND SIDEWALKS.
8. MANHOLES LOCATED IN THE CURB LINE SHALL REQUIRE OPENING TO BE PLACED IN PROPER LOCATION WITH RESPECT TO BACK OF CURB.



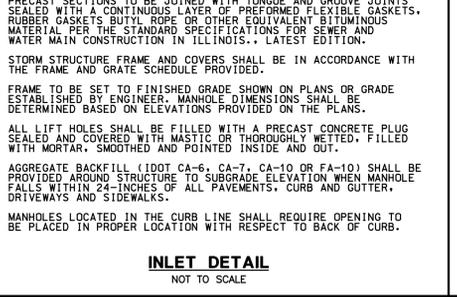
TEE MANHOLE DETAIL
NOT TO SCALE

DESIGNED	JAD
DRAWN	JD
APPROVED	JAD
DATE	03/14/2025
SCALE	N.T.S.



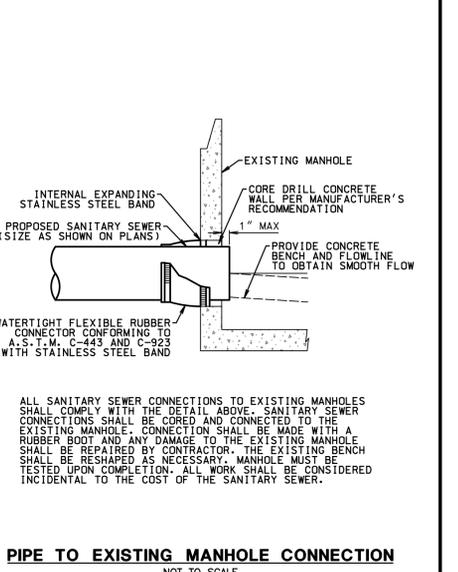
FIRE HYDRANT SETTING DETAIL
NOT TO SCALE

MATERIALS FOR WALLS	D	C	T (MIN)
PRECAST REINFORCED CONCRETE RISERS ASTM C-478	48"	30"	5"
	60"	45"	5"



INLET DETAIL
NOT TO SCALE

DESIGNED	JAD
DRAWN	JD
APPROVED	JAD
DATE	03/14/2025
SCALE	N.T.S.



PIPE TO EXISTING MANHOLE CONNECTION
NOT TO SCALE

FRAMES AND GRATES ON ALL STRUCTURES SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLANS:

SANITARY:
FRAMES AND COVERS SHALL BE NEENAH R-1713 WITH TYPE "A" COVER OR EAST JORDAN IRON WORKS (EJIW) 1058 WITH TYPE "A" COVER, SHALL HAVE THE WORD "SANITARY" ON THE COVER, AND SHALL HAVE A CONCEALED PICK HOLE. ALL SANITARY MANHOLE COVERS SHALL HAVE THE MUNICIPALITY NOTED IN 2" RAISED LETTERS.

WATER:
FRAMES AND COVERS SHALL BE NEENAH R-1713 WITH TYPE "A" COVER OR EJIW 1058 WITH TYPE "A" COVER, SHALL HAVE THE WORD "WATER" ON THE COVER AND A 1" CONCEALED PICK HOLE. ALL VALVE VAULT COVERS SHALL HAVE THE MUNICIPALITY NOTED IN 2" RAISED LETTERS.

STORM:
ALL OPEN LID GRATES SHALL CONTAIN THE TROUT LOGO OR APPROVED EQUAL AS SPECIFIED BY THE MUNICIPALITY. FRAMES AND COVERS SHALL BE AS FOLLOWS:
1. CLOSED LID (CL): NEENAH R-1712, SOLID LID COVER OR EJIW 1050 WITH TYPE "A" COVER, SHALL HAVE THE WORD "STORM" ON THE COVER AND SHALL HAVE THE MUNICIPALITY NOTED IN 2" RAISED LETTERS.
2. B6, 12 CURB AND GUTTER: NEENAH R-3281-AL WITH TYPE "A" COVER OR EJIW 1210 WITH M1 GRATE. CURB PLATE SHALL BE FLUSH WITH FLAG OF CURB.
3. DEPRESSED CURB AND GUTTER, EXCEPT ADA ACCESSIBLE ROUTES: NEENAH R-3281-AL WITH TYPE "A" COVER OR EJIW 1210 WITH M1 GRATE. CURB PLATE SHALL BE FLUSH WITH FLAG OF CURB.
4. OPEN LID WITHIN PAVEMENT, EXCEPT ADA ACCESSIBLE ROUTES: NEENAH R-2504 WITH TYPE "B" GRATE OR EJIW 1050 WITH TYPE "M1" GRATE. ADA ACCESSIBLE ROUTES: NEENAH R-3067-C WITH TYPE "B" GRATE OR APPROVED EQUAL.
5. OPEN LID WITHIN LANDSCAPED AREAS: NEENAH R-2577-B WITH TYPE "B" GRATE OR APPROVED EQUAL.
6. OPEN LID WITHIN REAR YARDS (BEEHIVE): NEENAH R-4340-B WITH "BEEHIVE" GRATE OR EJIW 6527.

FRAME AND GRATE SCHEDULE
NOT TO SCALE

MATERIALS FOR WALLS	D	C	T (MIN)
PRECAST REINFORCED CONCRETE RISERS ASTM C-478	48"	30"	5"
	60"	45"	5"

DIAMETER OF MAIN SEWER	D
18" AND UNDER	48"
21" THRU 42"	60"

MANHOLE DETAIL
NOT TO SCALE

DESIGNED	JAD
DRAWN	JD
APPROVED	JAD
DATE	03/14/2025
SCALE	N.T.S.

GENERAL NOTES

A. REFERENCED SPECIFICATIONS

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
 - STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 - STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION
 - CITY CODE OF WARRENVILLE, LATEST EDITION

IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

B. NOTIFICATIONS

- THE CITY OF WARRENVILLE MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF THE UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.

C. GENERAL NOTES

- THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.
- THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.
- THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY THE MUNICIPALITY OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.
- A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR SEWER DISTRICT AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.
- THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY UNPOLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.
- DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY AND/OR SEWER DISTRICT.
- THE LOCATION OF VARIOUS EXISTING UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.
- ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- NO FINAL CONNECTION SHALL BE MADE TO THE EXISTING WATER MAIN SYSTEM UNTIL THE WATER MAIN HAS BEEN PRESSURE TESTED AND CHLORINATED.
- ALL NON-PAVING CONCRETE USED ON THE PROJECT SHALL BE IDOT CLASS S1.
- MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY AND OWNER.
- THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.
- ALL EXISTING FIELD DRAINAGE TILE ENCOUNTERED OR DAMAGED DURING CONSTRUCTION WHICH DRAIN OFF-SITE PROPERTY SHALL BE CONNECTED TO THE STORM SEWER SYSTEM. ALL EXISTING FIELD DRAINAGE TILE ENCOUNTERED OR DAMAGED DURING CONSTRUCTION THAT SERVES ON-SITE PROPERTY CAN BE CAPPED AND/OR REMOVED FROM THE SITE.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.
- RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.
- TRAFFIC CONTROL SIGNS SHALL BE INSTALLED DURING CONSTRUCTION IN ACCORDANCE WITH THE IDOT SS AND IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THE SAFE AND ORDERLY PASSAGE OF TRAFFIC AND PEDESTRIANS SHALL BE MAINTAINED AT ALL TIMES.

D. EXCAVATION AND SITE GRADING

- EXCAVATION AND EMBANKMENT REQUIRED FOR SITE GRADING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SOILS REPORTS PREPARED FOR THIS SITE. COPIES OF THE SOILS REPORTS ARE AVAILABLE FROM THE OWNER.
- BUILDING PAD, BUILDING FOOTING, AND PAVEMENT SUBGRADES SHALL BE CONSTRUCTED OF SUITABLE FILL MATERIAL, AS DETERMINED BY THE SOILS ENGINEER, AND COMPACTED TO A MINIMUM BEARING CAPACITY OF 3,000 PSF IN BUILDING PAD AREAS AND 95% MODIFIED PROCTOR DENSITY WITHIN (PUBLIC, PARKING LOT) PAVEMENT AREAS OR PUBLIC RIGHT-OF-WAYS.)
- ALL CLAY EMBANKMENT NECESSARY FOR STORMWATER MANAGEMENT AREAS AS NOTED ON THE CROSS SECTION SHALL CONSIST OF COHESIVE SOIL TYPES WITH LESS THAN 25% SAND AND GRAVEL. MATERIAL SHALL HAVE A COEFFICIENT OF PERMEABILITY OF LESS THAN 10 x -7 CM/SEC. MAXIMUM PARTICLE SIZE SHALL BE 4-INCHES. THESE MATERIALS WILL BE PRACTICALLY IMPERVIOUS. MATERIAL SHALL BE TESTED FOR CLASSIFICATION, COMPACTION CHARACTERISTICS, PERMEABILITY CHARACTERISTICS AND UNCONFINED COMPRESSIVE STRENGTH, IN ORDER TO ENSURE THAT THEY MEET THE ABOVE REQUIREMENTS.

THE MATERIAL SHALL BE CL TYPE (USING THE USC CLASSIFICATION SYSTEM, ASTM D2487) AND FREE FROM GRAVEL, ROOTS, ORGANIC MATTER, AND ANY OTHER OBJECTIONABLE MATERIALS.

THE EMBANKMENT SHALL BE PLACED IN ESSENTIALLY HORIZONTAL LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS. EACH LIFT SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED IN THE LABORATORY BY THE MODIFIED PROCTOR COMPACTION TEST (ASTM D1557). EACH LIFT TO BE COMPACTED TO SPECIFIED DENSITY PRIOR TO THE PLACEMENT OF ADDITIONAL FILL. MOISTURE CONTROL IS IMPORTANT IN THE COMPACTION OF COHESIVE SOIL TYPES, AND THE WATER CONTENT OF THE EMBANKMENT FILL SHALL BE WITHIN 4 PERCENTAGE POINTS OF OPTIMUM MOISTURE AS ESTABLISHED BY THE LABORATORY COMPACTION CURVE.

- COMPACTION TESTING SHALL MEET THE REQUIREMENTS OF THE MUNICIPALITY AND THE OWNER.
- NO EQUIPMENT, MATERIAL OR WORK IS TO BE PERFORMED OUTSIDE THE LIMITS OF CONSTRUCTION.
- THE CONTRACTOR IS REQUIRED TO MEET ALL SOIL EROSION CONTROL AND SEDIMENTATION REQUIREMENTS AS SET FORTH IN THE IEPA STANDARDS, MUNICIPAL ORDINANCES, COUNTY ORDINANCES, AND THE ENGINEERING PLANS.
- ALL PAVEMENT SUBGRADES SHALL BE PROOF-ROLLED WITH A FULLY LOADED TEN WHEEL TRUCK. ANY SOFT YIELDING AREAS SHALL BE REMOVED AND REPLACED WITH COMPACTED CA-6 CRUSHED STONE.
- ALL UNSUITABLE MATERIAL, AS DETERMINED BY THE SOILS ENGINEER, SHALL BE REMOVED AND (A.) DISC-DRIED AND RECOMPACTED, OR (B.) LIMED OR CEMENT DRIED AND RECOMPACTED, OR (C.) REPLACED WITH CRUSHED STONE. IDOT CA-6 GRADATION. ALL OPTIONS MEETING COMPACTION REQUIREMENTS AS SPECIFIED EARLIER IN THESE SPECIFICATIONS.
- LIMITS OF BUILDING PAD SHALL EXTEND FIVE (5) FEET BEYOND PROPOSED BUILDING WALLS. LIMITS OF SUITABLE PAVEMENT SUBGRADE SHALL EXTEND TWO (2) FEET BEYOND BACK OF PROPOSED CURB, OR EDGE OF PAVEMENT.
- ALL REMOVAL OR EXCAVATION ITEMS BEING DISPOSED OF AT AN UNCONTAMINATED SOIL FILL OPERATION OR CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CDD) FILL SITE SHALL MEET THE REQUIREMENTS OF PUBLIC ACT 96-1416. ALL COSTS ASSOCIATED WITH MEETING THESE REQUIREMENTS SHALL BE INCLUDED IN THE UNIT PRICE COST FOR THE ASSOCIATED REMOVAL OR EXCAVATION ITEMS IN THE CONTRACT. THESE COSTS SHALL INCLUDE BUT ARE NOT LIMITED TO ALL REQUIRED TESTING, LAB ANALYSIS, CERTIFICATION BY A LICENSED PROFESSIONAL ENGINEER, AND STATE AND LOCAL TIPPING FEES.

E. PAVEMENT CONSTRUCTION

- HOT-MIX ASPHALT PAVEMENT SHALL HAVE A MINIMUM TOTAL COMPACTED THICKNESS AS SHOWN ON THE DRAWINGS AND SHALL BE COMPACTED TO 93% OF THE MAXIMUM UNIT WEIGHT AS DETERMINED BY ASTM D-2041.
- THE PAVEMENT SUBGRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF SECTION 301 (SUBGRADE PREPARATION) OF THE IDOT SS. SUBGRADE SHALL BE COMPACTED TO A MINIMUM IPR OF 3.0.
- THE AGGREGATE BASE COURSE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF SECTION 351 (AGGREGATE BASE COURSE) OF THE IDOT SS.
- NO AGGREGATE BASE COURSE SHALL BE INSTALLED UNTIL THE SUBGRADE HAS BEEN APPROVED BY THE OWNER.
- HOT-MIX ASPHALT PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF SECTION 406 (HOT-MIX ASPHALT BINDER AND SURFACE COURSE).
- NO HOT-MIX ASPHALT BINDER SHALL BE INSTALLED UNTIL THE AGGREGATE BASE COURSE HAS BEEN APPROVED BY THE OWNER. AGGREGATE BASE COURSE PRIME COAT (MC-30) SHALL BE APPLIED AT A RATE OF 0.25 TO 0.5 GALLONS PER SQUARE YARD, THE EXACT RATE TO BE SPECIFIED BY THE ENGINEER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY SIGNS, BARRICADES, FENCES, ETC. TO KEEP THE CONSTRUCTION SITE IN COMPLIANCE WITH STATE AND FEDERAL LAWS. THE MUNICIPALITY MAY REQUIRE ADDITIONAL SIGNAGE OR BARRICADES. THE CONTRACTOR SHALL COMPLY WITH ALL SUCH MUNICIPAL REQUIREMENTS.
- ALL EXISTING PAVEMENT, SIDEWALK, OR CURB AND GUTTER TO BE REMOVED SHALL BE SAWCUT ALONG THE LIMITS OF THE PROPOSED REMOVAL BEFORE REMOVAL OPERATIONS BEGIN.
- PRIOR TO PLACEMENT OF BASE COURSE, THE SUBGRADE SHALL BE PROOF-ROLLED WITH A FULLY LOADED TEN WHEEL TRUCK, AND ANY SOFT YIELDING AREAS SHALL BE REMOVED AND REPLACED WITH COMPACTED CA-6 CRUSHED STONE.
- CURB AND GUTTER REMOVAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF SECTION 440 (REMOVAL OF EXISTING PAVEMENT AND APPURTENANCES) OF THE IDOT SS.
- ALL PAVEMENT MARKINGS SHALL BE (PAINT, THERMOPLASTIC, PREFORMED PLASTIC).
- P.C.C. ROADWAY PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 420 (PORTLAND CEMENT CONCRETE PAVEMENT) OF THE IDOT SS. P.C.C. PAVEMENT FOR TRUCK DOCKS OR OTHER MISCELLANEOUS AREAS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 423 (PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT) OF THE IDOT SS. PCC PAVEMENT SHALL BE CLASS PY, UNLESS OTHERWISE NOTED. CONCRETE SHALL BE FINISHED AS DIRECTED BY THE OWNER OR ARCHITECT. JOINTS IN CONCRETE PAVEMENT SHALL BE PROVIDED AS FOLLOWS:
 - JOINTS WITHIN SINGLE LANE PAVEMENT (APPROXIMATELY 12-FOOT WIDE) SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 420.
 - CONTRACTION JOINTS IN TRUCK DOCK PAVEMENT OR SIMILAR CONSTRUCTION SHALL BE DIVIDED BY GROOVES CONSTRUCTED AT 10 FOOT MAXIMUM INTERVALS BOTH TRANSVERSELY AND LONGITUDINALLY, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THESE GROOVES SHALL EXTEND TO 1/4 THE DEPTH OF THE PAVEMENT, SHALL NOT BE LESS THAN 1/8 INCH NOR MORE THAN 1/4 INCH IN WIDTH AND SHALL BE EDGED WITH AN EDGING TOOL HAVING A 1/4 INCH RADIUS. THE EDGES OF THE SLABS SHALL BE EDGED AS DESCRIBED ABOVE.
 - EXPANSION JOINTS SHALL BE PROVIDED WHERE THE PROPOSED PAVEMENT OCCUPIES THE ENTIRE SPACE BETWEEN THE CONCRETE CURB OR COMBINATION CURB AND GUTTER AND AN ADJACENT BUILDING, PERMANENT STRUCTURE, EXISTING DRIVEWAY OR OTHER SIMILAR OBSTRUCTION. A ONE (1) INCHED PREFORMED EXPANSION JOINT FILLER SHALL BE PLACED BETWEEN THE DRIVEWAY PAVEMENT AND THE OBSTRUCTION. THE EXPANSION JOINT FILLER SHALL EXTEND THE ENTIRE DEPTH OF THE PAVEMENT.
- ADA ACCESSIBLE CURB RAMPS SHALL BE PROVIDED AT ALL LOCATIONS WHERE THE SIDEWALK ADJOINS THE CURB AND GUTTER. ALL ADA RAMPS SHALL PROVIDE DETECTABLE WARNINGS PER THE DETAIL NOTED WITHIN THIS PLAN SET. THE INSTALLATION OF THESE DETECTABLE WARNINGS SHALL CONFORM TO SECTION 424 OF THE IDOT SS AND THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES.
- ALL CONCRETE FOR SIDEWALK AND CURB AND GUTTER IS TO BE CLASS S1, 6.1 BAG MIX WITH NO FLY ASH.
- COMBINATION CURB AND GUTTER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF SECTION 606 (CONCRETE GUTTER, CURB, MEDIAN, AND PAVED DITCH) OF THE IDOT SS.
- EXPANSION JOINTS SHALL BE PLACED AT THE END OF ROAD AND AT INTERVALS OF NO MORE THAN 40-FEET IN TRACHE LINE PORTIONS OF WORK. EXPANSION JOINTS SHALL BE PROVIDED WHERE THE CURB AND GUTTER ABUTS AN EXISTING OR PROPOSED SIDEWALK, BUILDING, PERMANENT STRUCTURE OR EXISTING OR PROPOSED DRIVEWAY. EXPANSION JOINTS ARE REQUIRED 5-FEET ON EACH SIDE OF ANY STORM SEWER STRUCTURE IN THE CURB LINE. EXPANSION JOINTS SHALL CONSIST OF 1-INCH THEMLODED EXPANSION JOINT FILLER MATERIAL.
- EXPANSION JOINTS SHALL INCLUDE 12-INCH LONG #4 DOWEL BARS WITH CAP.

- CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF NO MORE THAN 10-FEET. CONTRACTION JOINTS SHALL BE SAWED TO A DEPTH EQUAL TO 1/3 THE THICKNESS OF THE GUTTER FLAG AND TO A WIDTH OF NOT LESS THAN 1/8 INCH.
 - A MINIMUM 4-INCH COMPACTED AGGREGATE BASE SHALL BE PROVIDED UNDER THE CURB AND GUTTER AND SHALL EXTEND 1-FOOT BEHIND BACK OF CURB. REFER TO SECTION 606 FOR ADDITIONAL JOINTING REQUIREMENTS.
- SIDEWALK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF SECTION 424 (PORTLAND CEMENT CONCRETE SIDEWALK) OF THE IDOT SS.
 - THE SURFACE SHALL BE DIVIDED BY GROOVES CONSTRUCTED AT RIGHT ANGLES TO THE CENTERLINE OF THE SIDEWALK OR AS SHOWN ON THE ENGINEERING PLANS. GROOVES SHALL EXTEND TO 1/4 THE DEPTH OF THE SIDEWALK, SHALL BE NOT LESS THAN 1/8 IN. NOR MORE THAN 1/4 IN. IN WIDTH, AND SHALL BE LONGER THAN 6 FT. NOR LESS THAN 4 FT. ON ANY SIDE, UNLESS OTHERWISE NOTED.
 - EXPANSION JOINTS SHALL BE 1/2 IN. THICK AND CONSIST OF PREFORMED JOINT FILLER. THE TOP OF THE JOINT FILLER SHALL BE 1/4 IN. BELOW THE SURFACE OF THE SIDEWALK.
 - EXPANSION JOINTS SHALL BE PLACED BETWEEN THE SIDEWALK AND ALL STRUCTURES SUCH AS LIGHT POLES, TRAFFIC SIGNAL POLES, TRAFFIC POLES AND SUBWAY COLUMNS, WHICH EXTEND THROUGH THE SIDEWALK. EXPANSION JOINTS SHALL BE PLACED AT MAXIMUM INTERVALS OF 50 FT. IN THE SIDEWALK. WHERE THE SIDEWALK IS CONSTRUCTED ADJACENT TO PAVEMENT OR CURB HAVING EXPANSION JOINTS, THE EXPANSION JOINTS IN THE SIDEWALK SHALL BE PLACED IN LINE WITH THE EXPANSION JOINTS AS NEARLY AS PRACTICABLE. EXPANSION JOINTS SHALL BE PLACED WHERE THE SIDEWALK ABUTS EXISTING SIDEWALKS, BETWEEN DRIVEWAY PAVEMENT AND SIDEWALK, AND BETWEEN SIDEWALK ACCESSIBILITY RAMPS AND CURBS WHERE THE RAMP ABUTS A CURB.

- HOT-MIX ASPHALT BASE COURSE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF SECTION 355 (HOT-MIX ASPHALT BASE COURSE) OF THE IDOT SS.
- HOT-MIX ASPHALT SPECIFICATIONS SHALL BE AS FOLLOWS:

ITEM	AIR VOIDS
HMA SURFACE COURSE, MIX "D", IL-9.5MM, NS0, 1.5" MIN.	4% AT 50 GYR.
HMA BINDER COURSE, IL-19.0, NS0; 2.25" MIN.	4% AT 50 GYR.
LEVELING BINDER (MACHINE METHOD), IL-4.75, NS0, 3/4" MIN	3.5% AT 50 GYR.
CLASS D PATCHES (HMA BINDER IL-19mm)	4% AT 70 GYR.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/50 YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR ALL NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE SPECIAL PROVISIONS. APPLICABLE DISTRICT ONE SPECIAL PROVISIONS MAY INCLUDE, "RECLAIMED ASPHALT PAVEMENT AND SHINGLES", "HMA MIXTURE IL-4.75" AND "STONE MATRIX ASPHALT (SMA)".

- ALL CURBS CONSTRUCTED OVER A UTILITY TRENCH SHALL BE REINFORCED WITH TWO EQUALLY SPACED #4 REBARS CENTERED IN THE FLAG FOR A LENGTH OF 10 FEET ON EITHER SIDE OF THE TRENCH. SIDEWALKS SHALL BE TREATED IN THE SAME MANNER USING THREE EQUALLY SPACED #4 REBARS CENTERED IN THE SIDEWALK FOR A LENGTH OF 10 FEET ON EITHER SIDE OF THE TRENCH.
- ALL WATER AND SANITARY SERVICE LOCATIONS SHALL BE STAMPED ON THE CURB WITH "W" OR "S" AT THE DEMARKED LOCATIONS WHERE POSSIBLE.

F. SANITARY SEWER

- ALL SANITARY SEWER AND SANITARY SEWER SERVICE PIPE SHALL BE SDR 26 ASTM D-2241 AND FITTINGS SHALL MEET THE REQUIREMENTS OF ASTM D-3139 OR EQUIVALENT. NOTE: THIS IS A PRESSURE RATED PIPE.
- SANITARY SEWER SERVICES SHALL BE A MINIMUM OF 6-INCHES IN DIAMETER. CLEANOUT SHOULD BE PROVIDED (PREFERRED OUTSIDE OF HOME).
- ALL SANITARY SEWERS SHALL BE AIR AND MANDREL TESTED, AND TELEVISED, INCLUDING PRIVATE COMMERCIAL LINES BETWEEN INSPECTION MANHOLE AND THE PUBLIC SANITARY SEWER. COPIES OF DVDS AND REPORTS SHALL BE PROVIDED TO THE CITY.
- SANITARY SEWER MANHOLES SHALL HAVE OPENINGS FOR THE PIPE CONNECTIONS CAST INTO THE WALL OF THE STRUCTURE. RUBBER GASKETED COUPLING (BOOT) WITH STAINLESS STEEL BANDS / RETAINERS SHALL BE PER ASTM C-923.
- WHEN CONNECTING TO AN EXISTING MANHOLE, THE HOLE MUST BE CORED AND A RUBBER GASKETED COUPLING (BOOT) WITH STAINLESS STEEL BANDS / RETAINERS SHALL BE PER ASTM C-923. THE BENCH SHALL BE REMOVED AND REPOURED, IF NECESSARY. RUBBER BOOTS/SEALS MUST BE USED WHERE PIPES ENTER MANHOLES. THE INTERNAL CONNECTION SHALL BE DRESSED UP WITH NON-SHRINK HYDRAULIC CEMENT, HYDRAULIC CEMENT, MORTAR, AND CONCRETE MUST BE OF THE STRENGTH AND WATER-TIGHTNESS QUALITY AS SPECIFIED IN THE ASTM STANDARDS.
- WHEN CONNECTING A NEW SANITARY SERVICE TO AN EXISTING SANITARY SEWER MAIN WITHOUT AN EXISTING WYE, CONTACT PUBLIC WORKS TO DETERMINE WHICH ONE OF THE TWO FOLLOWING METHODS SHALL BE USED:
 - A SECTION OF THE MAIN SHALL BE CUT OUT TO INSTALL A NEW WYE. CONNECTION BETWEEN THE EXISTING SANITARY SEWER AND THE NEW WYE SHALL BE MADE WITH NON-SHEAR MISSION COUPLINGS WITH TWO STAINLESS STEEL BANDS TO A POINT WHERE THE COUPLING CANNOT SHIFT.
 - CORE THE EXISTING MAIN AND MAKE THE CONNECTION WITH AN INSERTA TEE CONNECTION OR AN APPROVED EQUAL.
- SANITARY MANHOLES SHALL BE PRE-CAST CONCRETE UNITS. FOR SANITARY SEWERS 18-INCH DIAMETER OR LESS, THE MANHOLE SHALL BE 48-INCH INSIDE DIAMETER. FOR SANITARY SEWERS 21-INCH DIAMETER AND LARGER, THE MANHOLE SHALL BE 60-INCH INSIDE DIAMETER.
- FRAMES AND LIDS SHALL CONFORM TO NEENAH FOUNDRY R-1713 OR APPROVED EQUAL OR OTHERWISE NOTED IN PLANS AND THE WORD "SANITARY" SHALL BE CAST IN THE COVER. THE LID SHALL BE A SELF-SEALING SOLID LID WITH WATER TIGHT GASKET AND CONCEALED PICKHOLE. ANY MANHOLE WITHIN A FLOODPLAIN SHALL HAVE A WATER TIGHT, BODTOWN FRAME AND LID, NEENAH R-1916-F OR APPROVED EQUAL.
- MANHOLE SECTIONS AND ADJUSTING RINGS SHALL BE SEALED WITH BUTYL ROPE.
- SANITARY MANHOLES SHALL HAVE A POURED CONCRETE BENCH.
- RINGS / STEPS SHALL BE INSTALLED IN MANHOLES UNLESS SPECIFICALLY PROHIBITED
- EXTERNAL CHIMNEY SEALS (CRETEX OR APPROVED EQUAL) AND MACWRAP WILL BE REQUIRED WITH ALL SANITARY MANHOLES. THE FRAME, CHIMNEY, AND TOP "LIP" OF THE CONE SECTION SHALL BE REQUIRED TO BE SEALED WITH A CHIMNEY SEAL. THIS SHOULD BE OBSERVED BY THE CITY PRIOR TO BACKFILLING.
- NO GROUND WATER WILL BE ALLOWED TO ENTER THE SANITARY SEWER DURING OR AFTER CONSTRUCTION.

- NO MORE THAN TWELVE INCHES (12") OF ADJUSTING RINGS ARE ALLOWED.
- GRANULAR PIPE BEDDING MATERIAL SHALL BE IDOT CA-6, CA-10, OR FA-10 AND SHALL BE INSTALLED PER ASTM D2321. GRANULAR BEDDING SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
- SELECTED GRANULAR BACKFILL, IDOT CA-6, CA-10 OR FA-10 SHALL BE USED WHERE THE TOP OF TRENCH LIES UNDER OR WITHIN 24-INCHES OF ALL PAVEMENTS, CURB AND GUTTERS, DRIVEWAYS AND SIDEWALKS.
 - WATER MAIN
 - ALL OPEN CUT WATER MAIN SHALL BE POLYVINYL CHLORIDE PLASTIC (PVC) PRESSURE PIPE PER AWWA SPECIFICATION C-900, CLASS 150 (DR-18). THE ABOVE PIPE AND FITTINGS SHALL BE FURNISHED WITH ELASTOMERIC GASKET JOINTS CONFORMING TO ASTM F477. TRENCH BACKFILL SHALL BE UTILIZED TO TWELVE INCHES (12") ABOVE THE TOP OF THE PVC WATER MAIN.
 - ALL WATER MAIN INSTALLED BY HORIZONTAL DIRECTIONAL DRILLING SHALL BE PVC PER AWWA SPECIFICATION C-900 WITH CERTALOK JOINTS. ASSEMBLY AND INSTALLATION OF PIPE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ALL MATERIAL SPECIFICATIONS SHALL BE SUBMITTED TO THE CITY AND APPROVED PRIOR TO INSTALLATION.
 - COPPER CLAD STEEL (SSC) BLUE TRACER WIRE SHALL BE INSTALLED DIRECTLY OVER THE CENTER OF THE WATER MAIN IN THE TRENCH WITH A MAXIMUM SEPARATION OF FOUR INCHES (4") ABOVE THE PIPE. THE TRACER WIRE WILL BE INSTALLED WITH THE WATER MAIN AND ATTACHED TO ALL IN-LINE VALVES, HYDRANT VALVES, HYDRANTS AND SERVICE LINES TO INSURE SIGNAL CONDUCTIVITY ALONG ALL PORTIONS OF THE NEW MAIN. CONNECTIONS SHALL BE DRYCON 3-WAY DIRECT BURY LUG OR COPPERHEAD MAINLINE-TO-SERVICE CONNECTOR 3WB-01.
 - FOR OPEN TRENCH, A COPPERHEAD HIGH STRENGTH 1230 WIRE SHALL BE USED.
 - FOR DIRECTIONAL BORING, A COPPERHEAD EXTRA HIGH STRENGTH 1245 SHALL BE USED.
 - FOR PIPE BURSTING, A COPPERHEAD SOLOSHOT XTREME STRENGTH 7x7 STRANDED PBX-50 SHALL BE USED.
 - FOR FIRE HYDRANTS, TRACER WIRE SHALL TERMINATE AT TRACE WIRE ACCESS BOX. COPPERHEAD 13-75-F SHALL BE USED.
- FITTINGS SHALL BE DUCTILE IRON, 250 PSI PRESSURE RATING, CEMENT MORTAR LINED WITH RESTRAINED PUSH-ON JOINT OR MECHANICAL JOINT WITH MEGALUG RETAINER GLANDS, OR APPROVED EQUAL.
- WATER MAIN BOLTS SHALL BE STAINLESS STEEL ASTM 304.
- RESTRAINED JOINTS - ALL FITTINGS SHALL HAVE RESTRAINED JOINTS. ALL WATER MAIN PIPING IN CASING SHALL HAVE RESTRAINED JOINTS. RESTRAINED JOINTS SHALL BE PUSH JOINT WITH A FIELD LOCK GASKET OR A MECHANICAL JOINT WITH MEGALUG RETAINER GLANDS, OR APPROVED EQUAL. ALL BENDS, TEES, AND DEAD END PIPING MUST BE RESTRAINED A MINIMUM OF 24" IN BOTH DIRECTIONS OF THE FITTING. THRUST CEMENT BLOCKING OF ALL FITTINGS, HYDRANTS, AND DEAD END PIPING IS REQUIRED.
- PRESSURE CONNECTIONS - PRESSURE TAPPING SLEEVES SHALL BE ALL STAINLESS STEEL.
- ALL VALVES SHALL BE RESILIENT WEDGE GATE VALVES INSTALLED IN A PRECAST CONCRETE VAULT. VALVES SHALL BE MUELLER, WATEROUS, OR CLOW MANUFACTURE. ALL BOLTS SHALL BE STAINLESS STEEL.
- VALVE VAULTS SHALL BE PRE-CAST CONCRETE UNITS. FOR WATER MAINS 8-INCH DIAMETER OR LESS, THE VAULT SHALL BE 48-INCH INSIDE DIAMETER.
- FRAMES AND LIDS SHALL CONFORM TO NEENAH FOUNDRY R-1713 OR APPROVED EQUAL AND THE WORD "WATER" SHALL BE CAST IN THE COVER.
- CASING - SPACERS ALL JOINTS WITHIN THE CASING SHALL BE RESTRAINED. SPACERS SHALL BE INSTALLED ON ALL PIPE IN CASING. SPACERS SHALL BE BOLT ON STYLE WITH A SHELL MADE IN TWO SECTIONS OF HEAVY T-304 STAINLESS STEEL. CASING SHALL BE FILLED WITH PEA GRAVEL OR SAND AND SEALED AT BOTH ENDS.
- ALL DUCTILE IRON PIPES AND FITTINGS ARE REQUIRED TO BE ENCASED IN 8-MIL POLYETHYLENE CONFORMING TO AWWA C-105.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AND SUPPLY CERTIFICATION FOR ALL MATERIALS. SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE CITY BEFORE INSTALLATION.
- DEPTH OF BURY FOR WATER MAIN TO BE 5'-6" (MINIMUM).
- INSTALLATION SHALL CONFORM TO "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION.
- GRANULAR PIPE BEDDING MATERIAL SHALL BE IDOT CA-6, CA-10 OR FA-10 AND SHALL BE INSTALLED PER ASTM D2321. GRANULAR BEDDING SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
- SELECTED GRANULAR BACKFILL, IDOT CA-6, CA-10 OR FA-10 SHALL BE USED WHERE THE TOP OF THE TRENCH LIES UNDER OR WITHIN 24-INCHES OF ALL PAVEMENTS, CURB AND GUTTERS, DRIVEWAYS AND SIDEWALKS.
- WATER MAINS SHALL BE PRESSURE TESTED, LEAK TESTED AND CHLORINATED IN ACCORDANCE WITH LOCAL MUNICIPAL REQUIREMENTS AND THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS, LATEST EDITION.
- WATER MAINS SHALL BE LOCATED AT LEAST 10-FOET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SANITARY SEWER, STORM SEWER, COMBINED SEWER OR SEWER SERVICE CONNECTION. WATER MAINS MAY BE LOCATED CLOSER THAN 10-FOET TO A SEWER LINE WHEN:
 - LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF 10-FOET AND
 - THE WATER MAIN INVERT IS AT LEAST 18-INCHES ABOVE THE CROWN OF THE SEWER; AND
 - THE WATER MAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER. WHEN IT IS IMPOSSIBLE TO MEET THE CONDITIONS ABOVE, BOTH THE WATER MAIN AND SEWER MAIN SHALL BE CONSTRUCTED OF PIPE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION WITH SLIP-ON OR MECHANICAL JOINTS. THE SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING.
- WATER MAIN SHALL BE SEPARATED FROM STORM AND SANITARY SEWERS AS FOLLOWS:
 - WATER MAINS SHALL BE SEPARATED FROM A SEWER SO THAT ITS INVERT IS A MINIMUM OF 18-INCHES ABOVE THE CROWN OF THE SEWER WHEREVER WATER MAINS CROSS A STORM SEWER, SANITARY SEWER OR SEWER SERVICE CONNECTION. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF WATER MAIN LOCATED WITHIN 10-FOET HORIZONTALLY OF ANY SEWER CROSSING. A LENGTH OF WATER MAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OF BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINTS OF PIPE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION WHEN IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN a) ABOVE OR THE WATER MAIN PASSES UNDER A SEWER OR:

- A VERTICAL SEPARATION OF 18-INCHES BETWEEN THE INVERT OF THE SEWER AND THE CROWN OF THE WATER MAIN SHALL BE MAINTAINED WHERE A WATER MAIN CROSSES UNDER A SEWER. SUPPORT THE SEWER TO PREVENT SETTLING AND BREAKING THE WATER MAIN OR
- CONSTRUCTION OF WATER MAIN QUALITY PIPE SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE PERPENDICULAR DISTANCE FROM THE WATER MAIN TO THE SEWER IS AT LEAST 10-FOET.

H. FIRE HYDRANTS

- HYDRANTS SHALL BE FM APPROVED AND UL LISTED, SHALL CONFORM TO AWWA C-502, AND SHALL HAVE BREAKAWAY SAFETY FLANGES.
- HYDRANTS SHALL BE MUELLER CENTURION, WATEROUS WB67-250, OR CLOW MEDALLION.
- ALL BOLTS SHALL BE STAINLESS STEEL FROM AND INCLUDING THE BREAKAWAY FLANGE TO THE INLET ON THE HYDRANT SHOE.
- ALL HYDRANTS SHALL HAVE A BRONZE CROSS ARM / TOP PLATE.
- CONNECTION PIPING SHALL BE SIX-INCH (6") DIAMETER SHALL BE POLYVINYL CHLORIDE PLASTIC (PVC) PRESSURE PIPE PER AWWA SPECIFICATION C-900, CLASS 150 (DR-18). THE ABOVE PIPE AND FITTINGS SHALL BE FURNISHED WITH ELASTOMERIC GASKET JOINTS CONFORMING TO ASTM F477.
- MAIN VALVE OPENING SHALL BE FIVE AND ONE QUARTER INCH (5-1/4") IN DIAMETER, COMPRESSION TYPE, WITH A BRASS DRAIN VALVE.
- NOZZLES SHALL HAVE THREADED MALE ENDS CONFORMING TO "AMERICAN NATIONAL STANDARD FIRE HOSE CONNECTION SCREW THREADS". THE HYDRANT SHALL HAVE TWO NOZZLES OF 63 MM WHICH ARE 2-1/2" AND ONE PUMPER NOZZLE OF 114 MM (4-1/2") WITH CAPS AND CHAINS.
- HYDRANTS SHALL HAVE A MINIMUM WORKING PRESSURE OF 175 PSI.
- HYDRANTS SHALL OPEN IN A COUNTER-CLOCKWISE DIRECTIONS, AS INDICATED BY AN ARROW AND THE WORD "OPEN" ON THE DOME.
- HYDRANTS SHALL BE PAINTED A HIGH VISIBILITY RED, FACTOR APPLIED PAINT. HYDRANTS SHALL HAVE A SIX-INCH (6") AUXILIARY VALVE WITH BOX ON THE INLET PIPING. VALVE SHALL MEET WATER MAIN PIPING SPECIFICATIONS FOR THE CITY OF WARRENVILLE. AUXILIARY VALVE ATTACHED TO HYDRANT SHALL HAVE STAINLESS STEEL BOLTS AT THE FLANGE INLET.
- CONNECTION OF SIX-INCH (6") PIPING SHALL BE RESTRAINED JOINTS FROM THE TEE AT THE WATER MAIN TO THE INLET OF THE HYDRANT WITH FIELD LOCK GASKETS FOR PUSH JOINT AND MEGALUG RETAINER GLANDS OR APPROVED EQUAL FOR MECHANICAL JOINT.

I. WATER SERVICES

- FOR WATER SERVICES 2-INCH DIAMETER AND LESS SHALL BE TYPE "KU" COPPER OR ADS POTABLE WATER SERVICE TUBING (CTS) PIPE SDR 9. PIPE REQUIREMENTS OF ASTM D2737, AWWA C901 AND NSF STANDARD 14 AND 61. PIPE DIMENSIONS SHALL MEET COPPER TUBING SIZE (CTS) STANDARDS. MINIMUM SERVICE SIZE OF ONE-INCH (1") DIAMETER, NON-COPPER SERVICES WILL REQUIRE COPPER CLAD STEEL (SSC) BLUE TRACER WIRE. SEE WATERMAIN SPECIFICATIONS FOR TYPES.
- BRASS SHALL BE MUELLER OR FORD. ALL BRASS IS TO HAVE COMPRESSION FITTING. COMPRESSION FITTINGS MUST BE OF THE STAINLESS FULL CIRCLE RING RETAINAGE. NO SET SCREWS ARE ALLOWED. FLAIR FITTINGS ARE NOT ACCEPTABLE.
- B-BOXES SHALL BE OF THE ARCH PATTERN DESIGN WITH A TELESCOPING ONE AND ONE QUARTER-INCH (1-1/4") IRON PIPE UPPER SECTION, PENTAGON NUT ACCESS, ENLARGED BASE FOR 1-1/2" ROUNDWAYS AND LARGER, MANUFACTURED IN THE USA.
- TAPPING SADDLE AT MINIMUM SHALL BE EPOXY COATED DUCTILE WITH TWO STAINLESS STEEL BANDS. ALL STAINLESS STEEL SADDLES ARE ACCEPTABLE. MANUFACTURED IN USA.
- ALL REPAIR CLAMPS SHALL BE FULL CIRCLE STAINLESS STEEL
- DEPTH OF BURY FOR WATER SERVICES TO BE 5'-6" (MINIMUM) TO 6'-6" (MAXIMUM).

J. STORM SEWER

- ALL STORM SEWERS 18-INCH DIAMETER AND LESS SHALL BE PVC SDR26 WITH PIPES AND FITTINGS MEETING ASTM D-3034.
- ALL RCP STORM SEWERS SHALL BE INSTALLED WITH RUBBER GASKET JOINTS.
- THE MINIMUM STORM SEWER SIZE ALLOWED IN THE PUBLIC RIGHT-OF-WAY WILL BE 10-INCH DIAMETER UNLESS CONDITIONS WARRANT A SMALLER SIZE.
- ON PRIVATE PROPERTY, STORM SEWER INSTALLED TO DRAIN AN EXISTING DEPRESSIONAL AREA SHALL GENERALLY BE SIX-INCH OR EIGHT-INCH (6" OR 8") DIAMETER, UNLESS A LARGER SIZE IS SUPPORTED BY CALCULATIONS.
- STORM MANHOLES AND CATCH BASINS SHALL BE PRE-CAST CONCRETE UNITS. FOR STORM SEWERS 21-INCH DIAMETER OR LESS, THE MANHOLE SHALL BE 48-INCH INSIDE DIAMETER. FOR STORM SEWERS 24-INCH THROUGH 42-INCH DIAMETER, THE MANHOLE SHALL BE 60-INCH INSIDE DIAMETER. FOR STORM SEWERS 48-INCH DIAMETER AND LARGER, THE MANHOLE SHALL BE 72-INCH INSIDE DIAMETER.
- RINGS / STEPS SHALL BE INSTALLED IN MANHOLES UNLESS SPECIFICALLY PROHIBITED.
- THE MINIMUM SIZE STRUCTURE SHALL BE A 2-FOOT DIAMETER PRECAST CONCRETE INLET, UNLESS CONDITIONS WARRANT A DIFFERENT STRUCTURE.
- FRAMES AND LIDS SHALL CONFORM TO NEENAH FOUNDRY R-1713 OR APPROVED EQUAL AND THE WORD "STORM" SHALL BE CAST IN THE COVER.
- ALLOWABLE CURB AND PARKWAY CASTINGS FOR INLETS AND CATCH BASINS:
 - WHEN A BARRIER CURB IS PRESENT, USE A NEENAH R-3275 FRAME AND GRATE (FOR B-6,12 CURB AND GUTTER, WIDEN GUTTER SECTION TO ACCOMMODATE LARGER GRATE).
 - FOR SOME SLOPE CONDITIONS WHEN A BARRIER TYPE CURB IS PRESENT, A NEENAH R-3065-1 FRAME AND GRATE MAY BE USED (FOR B-6,12 CURB AND GUTTER, WIDEN GUTTER SECTION TO ACCOMMODATE LARGER GRATE).
 - WHEN ROLL CURB IS PRESENT, USE A NEENAH R-3501-P FRAME AND GRATE.
 - IN LAWN AREAS, USE BEEHIVE TYPE GRATE, NEENAH R-4340-B.
 - IN LAWN AREAS WHERE A LOT OF TREES ARE PRESENT, IN PUBLIC RIGHT-OF-WAY AND IN DITCHES, USE STOOLE TYPE GRATE, NEENAH R-4342.
 - WHEN APPLICABLE IN PARKING LOTS OR LAWN AREAS, USE ROUND GRATE NEENAH R-2502-A.
- ROUND GRATES WILL NOT BE ALLOWED IN THE STREET. EQUIVALENT SUBSTITUTIONS MAY BE PERMITTED, IF APPROVED BY PUBLIC WORKS.
- GRANULAR PIPE BEDDING MATERIAL SHALL BE IDOT CA-6, CA-10 OR FA-10 AND SHALL BE INSTALLED PER ASTM D2321. GRANULAR BEDDING SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
- SELECTED GRANULAR BACKFILL, IDOT CA-6, CA-10 OR FA-10 SHALL BE USED WHERE THE TOP OF TRENCH LIES UNDER OR WITHIN 24-INCHES OF ALL PAVEMENTS, CURB AND GUTTERS, DRIVEWAYS OR SIDEWALKS.

K. LANDSCAPING

- ALL DISTURBED AREAS SHALL BE RESTORED WITH 6-INCHES OF TOPSOIL AND SEEDED. SEEDING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 250 (SEEDING) OF THE IDOT SS. SEEDING MIXTURE SHALL BE CLASS 1 LAWN MIXTURE, UNLESS OTHERWISE INDICATED.
- EROSION CONTROL BLANKET SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 251 (MULCH) OF THE IDOT SS. EROSION CONTROL BLANKET SHALL BE EXCELSIOR DS-150 OR SC-150 DEPENDING ON THE INTENDED USE.

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DESIGNED: JAD
DRAWN: JD
APPROVED: JAD
DATE: 03/14/2025
SCALE: N.T.S.

06/12/25 REVISED PER CITY COMMENTS
DATE DESCRIPTION OF REVISION RMB BY

**PROJECT SPECIFICATIONS
CANTERA POINT
WARRENVILLE, ILLINOIS**

SHEET
18 OF 18
PROJECT NUMBER: 4821
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