SITE IMPROVEMENT PLANS
for
JIMMY JOHN'S

310 NORTH INDEPENDENCE BLVD
ROMEOVILLE, ILLINOIS
PROJECT NO:10291

DEVELOPER

ROMEOVILLE JJ LLC
9440 ENTERPRISE DRIVE
MOKENA, ILLINOIS 60448
PHONE: (708) 978-7667

CALL J.U.L.I.E. 1-800-892-0123
WITH THE FOLLOWING:
COUNTY WILL
CITY, TOWNSHIP ROMEOVILLE
SEC. & ¼ SEC. NO. T36N, R10E, SEC. 3

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

BENCHMARK
ELEVATION:
DESCRIPTION: SEE SHEET ET FOR BENCHMARK INFORMATION

NOTE:

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

REVISIONS

ORIGINAL PLAN DATE: FEBRUARY 25, 2022

#	SHEET #	REMARKS	DATE
1	ALL	PER VILLAGE OF ROMEOVILLE	04/08/22
2	3,5,7,11	PER VILLAGE OF ROMEOVILLE	05/09/22

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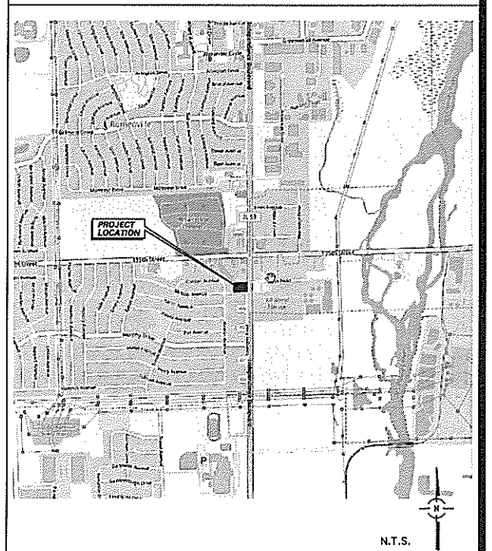
LOCATION MAP



ENGINEER 05/09/22
DATE
JAMES C. KAPUSTIAK, P.E.
ILLINOIS REGISTRATION NO.: 062-054942
EXPIRATION DATE: 11/30/2023

PROFESSIONAL DESIGN FIRM NO.: 184-001157
EXPIRATION DATE: 04/30/2023

THESE PLANS OR ANY PART THEREOF SHALL BE CONSIDERED VOID WITHOUT THE SIGNATURE , SEAL, AND EXPIRATION DATE OF SEAL OF THE ENGINEER

LICENSED PROFESSIONAL ENGINEER JAMES C. KAPUSTIAK NO. 062-054942 ILLINOIS

JIMMY JOHN'S
310 NORTH INDEPENDENCE BLVD
ROMEOVILLE, ILLINOIS

9575 W. Higgins Road, Suite 700, Rosemont, Illinois 60018
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CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS

SPACECO INC.

FILENAME: 10291TITLE
DATE: 02/25/22
JOB NO. 10291
SHEET C1
1 OF 13

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GENERAL NOTES

1. REFERENCED CODES

A. ALL PAVEMENT AND STORM SEWER CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC), AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS; ADOPTED JANUARY 1, 2016 BY ILLINOIS DEPARTMENT OF TRANSPORTATION AND ALL AMENDMENTS THERETO; AND IN ACCORDANCE WITH THE LATEST EDITION OF THE CODE OF THE MUNICIPALITY; EXCEPT AS MODIFIED HEREIN. IN CASE OF CONFLICT, MUNICIPAL CODE SHALL TAKE PRECEDENCE.

B. ALL SANITARY SEWER AND WATERMAIN CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, PUBLISHED JULY 2009, AND IN ACCORDANCE WITH THE CODE OF THE MUNICIPALITY; EXCEPT AS MODIFIED HEREIN OR BY ANY PUBLIC AGENCY PERMITS ISSUED FOR THIS WORK. IN CASE OF CONFLICT, THE MORE RESTRICTIVE PROVISIONS SHALL APPLY.

C. ALL SIDEWALK AND PUBLIC AREAS MUST BE CONSTRUCTED IN ACCORDANCE WITH CURRENT ADA, ILLINOIS HANDICAP ACCESSIBILITY AND ANY APPLICABLE LOCAL ORDINANCES. WHEN CONFLICTS EXIST BETWEEN THE GOVERNING AGENCIES, THE MORE STRINGENT SHALL GOVERN.

D. THE CITED STANDARD SPECIFICATIONS, CODES AND PERMITS, WITH THESE CONSTRUCTION PLANS AND DETAILS, ARE ALL TO BE CONSIDERED PART OF THE CONTRACT. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE CONSIDERED A PART OF THIS CONTRACT.

2. UTILITY LOCATIONS

A. THE UTILITY COMPANIES HAVE BEEN CONTACTED IN REFERENCE TO UTILITIES THEY OWN AND OPERATE WITHIN THE LIMITS FOR THIS PROJECT. DATA FROM THESE AGENCIES HAS BEEN INCORPORATED INTO THE PLANS. IT IS, HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM OR ESTABLISH THE EXISTENCE OF ALL UTILITY FACILITIES AND THEIR EXACT LOCATIONS, AND TO SAFELY SCHEDULE ALL UTILITY RELOCATIONS. FOR ADDITIONAL INFORMATION, THE AGENCIES LISTED ON THIS SHEET MAY BE CONTACTED.

B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES. THE ENGINEER DOES NOT WARRANT THE LOCATION OF ANY EXISTING UTILITIES SHOWN ON THE PLAN. THE CONTRACTOR SHALL CALL J.U.L.I.E. AT 800-892-0123 AND THE MUNICIPALITY, FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND THE MUNICIPALITY TWENTY-FOUR (24) HOURS PRIOR TO STARTING ANY CONSTRUCTION.

C. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH LOCATIONS OF THE NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.

3. UTILITY COORDINATION

A. OWNER SHALL OBTAIN EASEMENTS AND PERMITS NECESSARY TO FACILITATE CONSTRUCTION OF THE PROPOSED UTILITIES. THE CONTRACTOR, HOWEVER, SHALL FURNISH ALL REQUIRED BONDS AND EVIDENCE OF INSURANCE NECESSARY TO SECURE THESE PERMITS.

B. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE NATURE AND STATUS OF ALL UTILITY RELOCATION WORK PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ENSURE THAT CONSTRUCTION OPERATIONS DO NOT INTERFERE WITH UTILITY FACILITIES AND RELOCATION WORK. THE SCHEDULE SHOULD REFLECT CONSTRUCTION SEQUENCING WHICH COORDINATES WITH ALL UTILITY RELOCATION WORK. THE CONTRACTOR SHALL BE REQUIRED TO ADJUST THE ORDER OF ITS WORK FROM TIME TO TIME, TO COORDINATE SAME WITH UTILITY RELOCATION WORK, AND SHALL PREPARE REVISED SCHEDULE(S) IN COMPLIANCE THEREWITH AS DIRECTED BY THE OWNER.

C. THE OWNER AND THE ENGINEER SHALL BE NOTIFIED IN WRITING BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY OPERATION REQUIRING COOPERATION WITH OTHERS. AT&T SHALL BE CONTACTED ONE MONTH PRIOR TO START OF CONSTRUCTION IN ITS UTILITY AREAS. ALL OTHER AGENCIES, UNLESS OTHERWISE NOTED, SHALL BE NOTIFIED IN WRITING BY THE CONTRACTOR TEN (10) DAYS PRIOR TO THE START OF ANY SUCH OPERATION.

4. NO PLAN SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED "FOR CONSTRUCTION". PRIOR TO COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THE WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES WITH WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAME TO ENGINEER BEFORE DOING ANY WORK, OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTIONS ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.

5. ALL PROPOSED ELEVATIONS SHOWN ON THE PLANS ARE FINISHED SURFACE ELEVATIONS, UNLESS OTHERWISE SPECIFIED.

6. UPON AWARDING OF THE CONTRACT, AND WHEN REQUIRED BY THE MUNICIPALITY OR OWNER, THE CONTRACTOR SHALL FURNISH A LABOR, MATERIAL AND PERFORMANCE BOND IN THE AMOUNT REQUIRED GUARANTEEING COMPLETION OF THE WORK. THE UNDERWRITER SHALL BE ACCEPTABLE TO THE MUNICIPALITY OR OWNER, AS APPROPRIATE.

7. THE CONTRACTORS SHALL PLAN THEIR WORK BASED ON THEIR OWN BORINGS, EXPLORATIONS AND OBSERVATIONS TO DETERMINE SOIL CONDITIONS AT THE LOCATION OF THE PROPOSED WORK. HOWEVER, IF THE OWNER HAS A SOILS REPORT, THE RESULTS WILL BE AVAILABLE FROM THE OWNER UPON WRITTEN REQUEST.

8. CONTRACTOR SHALL VIDEO TAPE WORK AREA PRIOR TO CONSTRUCTION FOR THE PURPOSE OF DOCUMENTING EXISTING CONDITIONS.

9. COMMENCING CONSTRUCTION

A. THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR HIS REPRESENTATIVE AND THE AFFECTED GOVERNMENTAL AGENCIES IN WRITING AT LEAST THREE FULL WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL NOTIFY AS NECESSARY, ALL TESTING AGENCIES, EITHER MUNICIPALITY'S OR THE OWNER'S, SUFFICIENTLY IN ADVANCE OF CONSTRUCTION. ALL MATERIAL TESTING SHALL BE THE RESPONSIBILITY AND EXPENSE OF THE CONTRACTOR. THE TESTING AGENCY SHALL MEET THE APPROVAL OF THE OWNER.

B. FAILURE OF CONTRACTOR TO ALLOW PROPER NOTIFICATION TIME WHICH RESULTS IN TESTING COMPANIES TO BE UNABLE TO VISIT SITE AND PERFORM TESTING WILL CAUSE CONTRACTOR TO SUSPEND OPERATION (PERTAINING TO TESTING) UNTIL TESTING AGENCY CAN SCHEDULE TESTING OPERATIONS. COST OF SUSPENSION OF WORK TO BE BORNE BY CONTRACTOR.

10. ALL CONTRACTORS SHALL KEEP ACCESS AVAILABLE AT ALL TIMES FOR ALL TYPES OF TRAFFIC. AT NO TIME SHALL ACCESS BE DENIED TO ADJACENT PROPERTIES.

11. THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES UNTIL THEY ARE NO LONGER NEEDED. ANY STAKES DESTROYED OR DISTURBED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET BY THE DEVELOPER'S ENGINEER AT CONTRACTOR'S COST.

12. ANY EXISTING SIGNS, LIGHT STANDARDS AND UTILITY POLES WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND NOT NOTED FOR DISPOSAL SHALL BE REMOVED AND RESET BY THE CONTRACTOR AT HIS OWN EXPENSE AS SHOWN ON THE ENGINEERING PLANS OR AS DIRECTED BY THE DEVELOPER. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE OWNER. ANY SIGNS NOT REQUIRED TO BE RESET, SHALL BE DELIVERED TO THE RESPECTIVE OWNERS.

13. REMOVAL OF SPECIFIED ITEMS, INCLUDING BUT NOT LIMITED TO, PAVEMENT, SIDEWALK, CURB, CURB AND GUTTER, CULVERTS, ETC. SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT HIS OWN EXPENSE. HE IS RESPONSIBLE FOR ANY PERMIT REQUIRED FOR SUCH DISPOSAL.

14. ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM OR SHALL BE RESTORED TO PROPER OPERATING CONDITION. A RECORD OF THE LOCATION OF ALL FIELD TILE OR DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE CONTRACTOR AND TURNED OVER TO THE ENGINEER, DEVELOPER OR MUNICIPAL ENGINEER UPON COMPLETION OF THE PROJECT. THE COST OF THIS WORK SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

15. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOB.

16. THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIALS, TRASH, OIL AND GREASE RESIDUE, MACHINERY, TOOLS AND OTHER MISCELLANEOUS ITEMS WHICH WERE NOT PRESENT PRIOR TO PROJECT COMMENCEMENT AT NO ADDITIONAL EXPENSE TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY AND ALL PERMITS NECESSARY FOR THE HAULING AND DISPOSAL REQUIRED FOR CLEAN-UP AS DIRECTED BY THE ENGINEER OR OWNER. BURNING ON THE SITE IS NOT PERMITTED.

17. ALL EXISTING UTILITIES OR IMPROVEMENTS, INCLUDING WALKS, CURBS, PAVEMENT AND PARKWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE PROMPTLY RESTORED TO THEIR RESPECTIVE ORIGINAL CONDITION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNLESS SPECIFICALLY NOTED ON THE PLANS.

18. TREES NOT MARKED FOR REMOVAL SHALL BE CONSIDERED AS DESIGNATED TO BE SAVED AND SHALL BE PROTECTED UNDER THE PROVISIONS OF (SSRBC) ARTICLE 201.05.

19. LIMB PRUNING SHALL BE PERFORMED UNDER THE SUPERVISION OF THE LANDSCAPE ARCHITECT MEETING THE OWNER'S APPROVAL AND SHALL BE UNDERTAKEN IN A TIMELY FASHION SO AS NOT TO INTERFERE WITH CONSTRUCTION.

20. ALL LIMBS, BRANCHES, AND OTHER DEBRIS RESULTING FROM THIS WORK SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT HIS OWN EXPENSE OFF-SITE.

21. ALL CUTS OVER 1" IN DIAMETER SHALL BE MADE FLUSH WITH THE NEXT LARGE BRANCH. WOUNDS OVER 1" IN DIAMETER SHALL BE PAINTED WITH AN APPROVED TREE PAINT.

22. GENERAL EXCAVATION/UNDERGROUND NOTES

A. SLOPE SIDES OF EXCAVATIONS TO COMPLY WITH CODES AND ORDINANCES HAVING JURISDICTION. SHORE AND BRACE WHERE SLOPING IS NOT POSSIBLE EITHER BECAUSE OF SPACE RESTRICTIONS OR STABILITY OF MATERIAL EXCAVATED. MAINTAIN SIDES AND SLOPES OF EXCAVATIONS IN A SAFE CONDITION UNTIL COMPLETION OF BACKFILLING.

B. PROVIDE MATERIALS FOR SHORING AND BRACING, SUCH AS SHEET PILING, UPRIGHTS, STRINGERS AND CROSS BRACES, IN GOOD SERVICEABLE CONDITION. PROVIDE MINIMUM REQUIREMENTS FOR TRENCH SHORING AND BRACING TO COMPLY WITH CODES AND AUTHORITIES HAVING JURISDICTION. MAINTAIN SHORING AND BRACING IN EXCAVATIONS REGARDLESS OF TIME PERIOD EXCAVATIONS WILL BE OPEN. CARRY DOWN SHORING AND BRACING AS EXCAVATION PROGRESSES IN ACCORDANCE WITH OSHA AND GOVERNING AUTHORITY.

C. PREVENT SURFACE WATER AND SUBSURFACE OR GROUNDWATER FROM FLOWING INTO EXCAVATIONS. REMOVE WATER TO PREVENT SOFTENING OF FOUNDATION BOTTOMS, UNDERCUTTING FOOTINGS, AND SOIL CHANGES DETRIMENTAL TO STABILITY OF SUBGRADES AND FOUNDATIONS. PROVIDE AND MAINTAIN PUMPS, SUMPS, SUCTION AND DISCHARGE LINES AND OTHER DEWATERING SYSTEM COMPONENTS NECESSARY TO CONVEY WATER AWAY FROM EXCAVATIONS. CONVEY WATER REMOVED FROM EXCAVATIONS AND RAINWATER TO COLLECTING OR RUN-OFF AREAS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. PROVIDE AND MAINTAIN TEMPORARY DRAINAGE DITCHES AND OTHER DIVERSIONS OUTSIDE EXCAVATION LIMITS FOR EACH STRUCTURE. DO NOT USE TRENCH EXCAVATIONS AS TEMPORARY DRAINAGE DITCHES.

D. IMMEDIATELY REPORT CONDITIONS THAT MAY CAUSE UNSOUND BEARING TO THE OWNER/DEVELOPER BEFORE CONTINUING WORK.

23. FINAL ACCEPTANCE

A. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AS DEFINED BY CONTRACT WITH OWNER. FROM THE DATE OF FINAL ACCEPTANCE OF THE PROJECT AND THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE DURING THAT PERIOD. THIS GUARANTEE SHALL BE PROVIDED IN THE FORM AS DEFINED IN CONTRACT.

B. BEFORE ACCEPTANCE BY THE OWNER AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED BY THE OWNER OR HIS REPRESENTATIVE.

C. NO UNDERGROUND WORK SHALL BE COVERED UNTIL IT HAS BEEN APPROVED BY THE MUNICIPALITY. APPROVAL TO PROCEED MUST BE OBTAINED FROM THE MUNICIPALITY PRIOR TO INSTALLING PAVEMENT BASE, BINDER, SURFACE, AND PRIOR TO PLACING ANY CONCRETE AFTER FORMS HAVE BEEN SET.

D. AT THE CLOSE OF EACH WORKING DAY AND AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS.

24. UNDERGROUND NOTES

A. UNDERGROUND WORK SHALL INCLUDE TRENCHING, INSTALLATION OF PIPE, CASTINGS, STRUCTURES, BACKFILLING OF TRENCHES AND COMPACTION AND TESTING AS SHOWN ON THE CONSTRUCTION PLANS. FITTINGS AND ACCESSORIES NECESSARY TO COMPLETE THE WORK MAY NOT BE SPECIFIED, BUT SHALL BE CONSIDERED AS INCIDENTAL TO THE COST OF THE CONTRACT.

B. WHERE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, EXISTING DRAINAGE STRUCTURES AND SYSTEMS SHALL BE CLEANED OF DEBRIS AND PATCHED AS NECESSARY TO ASSURE INTEGRITY OF THE STRUCTURE. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STRUCTURES AND CONTRACT UNIT PRICE PER LINEAL FOOT FOR SYSTEMS WHICH SHALL BE PAYMENT IN FULL FOR CLEANING, PATCHING, REMOVAL AND DISPOSAL OF DEBRIS AND DIRT. DRAINAGE STRUCTURES AND SYSTEMS CONSTRUCTED AS PART OF THIS PROJECT SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS EXPENSE. NO PAYMENT WILL BE MADE FOR CLEANING STRUCTURES OR SYSTEMS CONSTRUCTED AS PART OF THIS PROJECT.

C. ANY DEWATERING OF SEWER AND WATER TRENCHES AS WELL AS TEMPORARY SHEETING OR BRACING THAT MAY BE REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL NOT BE CONSIDERED EXTRA WORK UNLESS THERE IS A SPECIFIC LINE ITEM FOR DEWATERING. IN THE EVENT THAT SOFT MATERIALS WITH UNCONFINED COMPRESSIVE STRENGTH LESS THAN 0.5 TSF ARE ENCOUNTERED IN SEWER CONSTRUCTION, THE CONTRACTOR SHALL (UPON APPROVAL OF THE OWNER AND/OR ENGINEER) OVER-EXCAVATE TO A DEPTH OF ONE (1) FOOT BELOW THE BOTTOM OF THE PIPE AND BACKFILL WITH COMPACTED CRUSHED STONE, PROPERLY FORMED TO FIT THE BOTTOM OF THE PIPE.

D. TRENCH BACKFILL WILL BE REQUIRED FOR THE FULL TRENCH DEPTH WITHIN TWO (2) FEET OF PROPOSED OR EXISTING PAVEMENTS, UTILITIES, DRIVEWAYS, AND SIDEWALKS AND EXTENDING A DISTANCE EQUAL TO A 1:1 SLOPE FROM SUBGRADE ELEVATION TO TOP OF PIPE. THE TRENCH BACKFILL SHALL CONSIST OF GRANULAR MATERIAL MEETING IDOT CA-6 GRADATION. THE TRENCH BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH (SSRBC) SPECIFICATIONS. JETTING WITH WATER SHALL NOT BE PERMITTED. THE COST OF SUCH CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THIS CONTRACT AND SHALL BE INCLUDED IN THE UNIT PRICE OF THE PIPE. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS ITEM.

E. THE CONTRACTOR SHALL INSTALL A 4" X 4" X 8' (NOMINAL) POST AT THE TERMINUS OF THE SANITARY, WATER AND STORM SERVICE, SANITARY AND STORM MANHOLES, CATCH BASINS, INLETS AND WATER VAULTS. THE POST SHALL EXTEND 4' ABOVE THE GROUND. THE TOP 12" OF SAID POST SHALL BE PAINTED AS FOLLOWS: SANITARY - RED, WATERMAIN - BLUE, STORM - GREEN.

F. AFTER THE STORM SEWER SYSTEM HAS BEEN CONSTRUCTED, THE CONTRACTOR SHALL PLACE EROSION CONTROL AT REAR YARD INLET LOCATIONS, AND AT OTHER LOCATIONS SELECTED BY THE ENGINEER, TO MINIMIZE THE AMOUNT OF SILTATION WHICH NORMALLY WOULD ENTER THE STORM SEWER SYSTEM.

G. HYDRANTS SHALL NOT BE FLUSHED DIRECTLY ON THE ROAD SUBGRADES. WHENEVER POSSIBLE, HOSES SHALL BE USED TO DIRECT THE WATER INTO LOT AREAS OR THE STORM SEWER SYSTEM (IF AVAILABLE). DAMAGE TO THE ROAD SUBGRADE OR LOT GRADING DUE TO EXCESSIVE WATER SATURATION AND/OR EROSION FROM HYDRANT FLUSHING, OR FROM LEAKS IN THE WATER DISTRIBUTION SYSTEM, WILL BE REPAIRED BY THE CONTRACTOR AT HIS COST.

H. ALL TOP OF FRAMES FOR STORM AND SANITARY SEWERS AND VALVE VAULT COVERS ARE TO BE ADJUSTED TO MEET FINAL FINISH GRADE. THIS ADJUSTMENT IS TO BE MADE BY THE SEWER AND WATER CONTRACTOR AND THE COST IS TO BE CONSIDERED INCIDENTAL. THESE ADJUSTMENTS TO FINISHED GRADE WILL NOT ALLEVIATE THE CONTRACTOR FROM ANY ADDITIONAL ADJUSTMENTS AS REQUIRED BY THE MUNICIPALITY UPON FINAL INSPECTION OF THE PROJECT. (FINAL GRADES TO BE DETERMINED BY THE MUNICIPALITY AT THE TIME OF FINAL INSPECTION AND MAY VARY FROM PLAN GRADE.)

I. SLEEVES FOR UTILITY (COMED, TELEPHONE, ETC.) STREET CROSSING, SHALL BE INSTALLED WHERE DIRECTED BY THE OWNER. SLEEVES SHALL BE 6" PVC INSTALLED 36" BELOW THE TOP OF CURB AND EXTEND TWO FEET OUTSIDE THE CURB. TRENCH SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL.

J. THE CONTRACTOR SHALL VERIFY THE SIZE AND INVERT ELEVATION OF ALL CONNECTIONS TO AVOID ANY CONFLICTS BEFORE STARTING WORK. NOTIFY OWNER OF ANY DISCREPANCIES.

25. IT SHALL BE UNDERSTOOD THAT NEITHER THE MUNICIPALITY, ITS OFFICIALS, CONSULTANTS, NOR ITS EMPLOYEES ARE AGENTS OF OR REPRESENTATIVES OF THE OWNER. NONE-THE-LESS, THE MUNICIPALITY, ITS OFFICIALS AND EMPLOYEES ARE TO BE PROVIDED SAFE ACCESS TO ALL PHASES OF ALL WORK PERFORMED ON THE PROJECT SITE TO MONITOR THE QUALITY OF THE WORK AND ASSURE ITS CONFORMITY WITH THE PLANS AND SPECIFICATIONS. THERE SHALL BE NO PERSONAL LIABILITY UPON ANY OFFICIAL OR EMPLOYEE OF THE MUNICIPALITY ON ACCOUNT OF ACTIONS TAKEN OR NOT TAKEN IN THE COURSE OF THEIR WORK. THE CONTRACTOR MUST AT ALL TIMES MAINTAIN A SAFE ACCESS TO THE WORK FOR INSPECTORS. "SAFE" : MEANING CONDITIONS COMPLYING WITH ALL PROVISIONS OF ALL APPLICABLE AND RECOGNIZED SAFETY STANDARDS, FEDERAL, STATE AND LOCAL. IF ACCESS IS NOT SAFE AND INSPECTIONS CANNOT BE MADE UNDER SAFE CONDITIONS, THE INSPECTOR CAN ORDER CESSATION OF THE WORK SO AFFECTED UNTIL SUCH TIME AS CONTRACTOR PROVIDES SAFE ACCESS.

VILLAGE OF ROMEOVILLE WATER NOTES

PRECAST CONCRETE VALVE VAULTS.

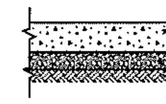
1. MANHOLES MUST CONFORM TO THE LATEST REQUIREMENTS OF ASTM C487.
2. NEVER TRANSPORT SECTIONS TO THE SITE UNTIL THEY HAVE CURED FOR AT LEAST TEN (10) DAYS.
3. MARK EACH PIECE PLAINLY WITH MANHOLE NUMBERS AND DATE OF MANUFACTURE SO IT CAN BE INSTALLED IN THE PROPER LOCATION, AS SHOWN ON THE PLANS.
4. MAKE SURE FACTORY-INSTALLED CUTOUTS IN THE BOTTOM SECTIONS ARE APPROPRIATE FOR THE PIPE BEING LAID.
5. PIPE CONNECTIONS AT MANHOLE - CUTOUTS SHOULD BE EQUIPPED WITH RUBBER BOOTS TO ENSURE A WATERTIGHT CONNECTION. MATERIAL SHALL BE KOR-N-SEAL CONNECTOR, AS MANUFACTURED BY NPC, INC.
6. JOINT SEALANT - FLEXIBLE RUBBER SEALANT FOR JOINTS IN PRE-CAST MANHOLE SECTIONS SHALL PROVIDE PERMANENTLY FLEXIBLE WATERTIGHT JOINTS, SHALL REMAIN WORKABLE OVER A WIDE TEMPERATURE RANGE AND SHALL NOT SHRINK, HARDEN, OR OXIDIZE UPON AGING. MATERIAL SHALL BE EQUAL TO TYLOX SUPERSEAL AND SHALL MEET ASTM C443 AND ASTM C361 REQUIREMENTS.
7. THE FRAME FOR THE LID SHALL BE INSTALLED WHEN THE CONE SECTION IS CAST.
8. HEAT-SHRINKABLE ENCAPSULATION FOR EXTERNAL WRAPPING OF ALL JOINTS: WRAPID SEAL AS MANUFACTURED BY CANUSA CPS, BIDCO EXTERNAL JOINT WRAP AS MANUFACTURED BY NPC OR APPROVED EQUAL.

FIRE HYDRANTS.

1. PLEASE BE CONSCIOUS OF DAMAGING THE PAINT ON THE HYDRANTS DURING INSTALLATION. THE VILLAGE OF ROMEOVILLE HAS FOUND THAT THE PAINT ON THE HYDRANTS CAN BE DAMAGED DURING BACKFILLING. IF REQUESTED BY THE VILLAGE OF ROMEOVILLE WATER SUPERINTENDENT, ANY HYDRANTS EXHIBITING EXCESSIVE ROCK DAMAGEWILL BE SAND BLASTED AND REPAINTED BY AN APPROVED CONTRACTOR PRIOR TO ACCEPTANCE.
2. A MINIMUM OF 48 HOURS PRIOR TO ANY WATER USAGES (I.E. FLUSHES, FILLS, ETC.), THE CONTRACTOR MUST CALL THE VILLAGE OF ROMEOVILLE'S WATER DEPARTMENT AT 815-886-1870 TO GET APPROVAL OF SAID USAGE. ANY UNAUTHORIZED USAGES WILL RESULT IN PENALTIES.
3. ALL VALVES AND HYDRANTS SHALL BE SUBMITTED TO THE VILLAGE OF ROMEOVILLE WATER DEPARTMENT FOR WRITTEN APPROVAL PRIOR TO ORDERING.

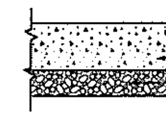
VILLAGE OF ROMEOVILLE - MINIMUM CHLORINATION STANDARDS:

A. GAS CHLORINE MUST BE USED FOR DISINFECTION.
B. THE CHLORINATION CONTRACTOR MUST CALL 815-886-1870 A MINIMUM OF 24-HOURS IN ADVANCE TO SCHEDULE CHLORINATION.
C. ONLY VILLAGE OF ROMEOVILLE EMPLOYEES SHALL OPERATE WATER SYSTEM VALVES AND TURN ON/OFF SAMPLING WHIPS WHILE SAMPLES ARE BEING COLLECTED.
D. ALL CHLORINATION AND SAFETY EQUIPMENT MUST MEET OR EXCEED THE STANDARDS AND RECOMMENDATIONS SET BY THE CHLORINE INSTITUTE, INC.
E. THE CHLORINATOR MUST BE A LICENSED PLUMBER OR CERTIFIED ILLINOIS WATER OPERATOR WITH A MINIMUM OF 5 YEARS EXPERIENCE WORKING WITH CHLORINE DISINFECTION OF WATER SUPPLY LINES.
F. THE CHLORINATION CONTRACTOR MUST HAVE TWO PEOPLE PRESENT TO CHLORINATE. ONE TO MONITOR THE CYLINDER AND ONE TO MONITOR IN THE FIELD.
G. THE CHLORINATION CONTRACTOR MUST BE BONDED AND INSURED, AND HAVE PROOF OF BOTH ON FILE WITH THE VILLAGE.
H. THE CHLORINATION CONTRACTOR MUST HAVE UPDATED 24-HOUR EMERGENCY PHONE NUMBERS ON FILE WITH THE VILLAGE.
I. THE CHLORINATION CONTRACTOR MUST COMPLY WITH STATE AND FEDERAL REGULATIONS REGARDING TRANSPORTATION AND HANDLING OF CHLORINE CYLINDERS:
   - SHIPPING AND EMERGENCY PAPERS FOR EVERY JOB LOCATION
   - PROOF OF INSURANCE FOR HAULING AND HANDLING CHLORINE GAS
   - COMMERCIAL DRIVER'S LICENSE WITH HAZMAT ENDORSEMENT AND MEDICAL CARD
   - COPY OF EMERGENCY RESPONSE GUIDEBOOK IN VEHICLE
   - HAZMAT CERTIFICATE OF REGISTRATION
   - HAZARDOUS MATERIALS PLACARD DISPLAYED ON VEHICLE
   - CYLINDER STRAPPED UPRIGHT IN TRUCK
J. UNDER NO CIRCUMSTANCES WILL CHLORINE CONTRACTORS BE ALLOWED TO APPLY HEAT TO THE CHLORINE CYLINDER (I.E. HOT BATHS, PROPANE TORCHES, ETC.). WHILE THE CYLINDER IS BEING USED IT MUST BE IN A VERTICAL POSITION, AS WELL AS BEING AFFIXED TO A SOLID OBJECT.
K. PRIOR TO CHLORINATION, THE CHLORINATION CONTRACTOR MUST PROVIDE A DETAILED WRITTEN CHLORINATION AND FLUSHING PLAN TO THE VILLAGE FOR REVIEW AND WRITTEN APPROVAL.
L. AT ANY TIME, THE VILLAGE OR ITS AUTHORIZED REPRESENTATIVE MAY ASK FOR PROOF OF ANY OR ALL OF THE ABOVE INFORMATION. PLEASE CONTACT THE VILLAGE OF ROMEOVILLE PUBLIC WORKS DEPARTMENT (815-886-1870) WITH ANY QUESTIONS.



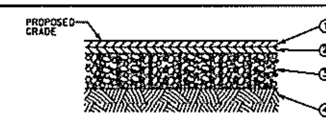
CONCRETE SIDEWALK

N.T.S.



CONCRETE APRON PAVEMENT

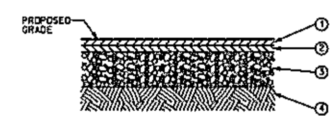
N.T.S.



① 1.5" BITUMINOUS CONCRETE SURFACE COURSE, HOT-MIX ASPHALT, MIX "D", N 50
② 2.25" BITUMINOUS CONCRETE BINDER COURSE, HOT-MIX ASPHALT, IL-19, N 50
③ 10" CRUSHED AGGREGATE BASE COURSE, IDOT CA-6
④ COMPACTED SUBGRADE

TYPCIAL LIGHT DUTY ASPHALT PAVEMENT SECTION
NOT TO SCALE

SN = 1.5" X 0.40 = 0.60
2.25" X 0.33 = 0.74
10" X 0.13 = 1.30
2.64



① 1.5" BITUMINOUS CONCRETE SURFACE COURSE, HOT-MIX ASPHALT, MIX "D", N 50
② 3.0" BITUMINOUS CONCRETE BINDER COURSE, HOT-MIX ASPHALT, IL-19, N 50
③ 12" CRUSHED AGGREGATE BASE COURSE, IDOT CA-6
④ COMPACTED SUBGRADE

TYPCIAL HEAVY DUTY ASPHALT PAVEMENT SECTION
NOT TO SCALE

SN = 1.5" X 0.40 = 0.60
2.75" X 0.33 = 0.91
12" X 0.13 = 1.56
3.07

LEGEND

EXISTING	DESCRIPTION	PROPOSED
	DRAIN TILE	
	STORM SEWER	
	SANITARY SEWER	
	SANITARY TRUNK SEWER	
	WATER MAIN (WITH SIZE)	
	PIPE TRENCH BACKFILL	
	GAS MAIN	
	TELEPHONE LINES	
	ELECTRIC LINE	
	FENCE	
	RIGHT-OF-WAY	
	EASEMENT	
	PROPERTY LINE	
	SETBACK LINE	
	CENTERLINE	
680	CONTOUR	680
	SANITARY MANHOLE	
	STORM MANHOLE	
	CATCH BASIN	
	INLET	
	FIRE HYDRANT	
	PRESSURE CONNECTION	
	PIPE REDUCER	
	VALVE AND VAULT, VALVE	
	FLARED END SECTION	
	STREET LIGHT	
	UTILITY POLE	
	CONTROL POINT	
	SIGN	
XXX.XX	SPOT ELEVATION	XXX.XX
	SOIL BORING	
	OVERLAND FLOW ROUTE	
	DRAINAGE SLOPE	OR
	GUARDRAIL	
	WATER'S EDGE	
	CONCRETE	
	REVERSE PITCH CURB	
	TREE, FIR TREE, BUSH, & PROPOSED TREE TO REMOVE	

ABBREVIATIONS

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

CONTACT INFORMATION

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COMMONWEALTH EDISON
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JOLIET, IL 60433-9599
PH: 815-727-5656
CONTACT PERSON:

NICOR
3000 E. CASS STREET
JOLIET, IL 60432
PH: 815-740-4100
CONTACT PERSON:

AT&T
2427 UNION STREET 2nd FLOOR
BLUE ISLAND, IL 60406
PH: 224-512-3820
CONTACT PERSON:

COMCAST
17700 HOFFMAN WAY
HOMEWOOD, IL 60430
PH: 800-934-6489
CONTACT PERSON:

NO.	DATE	REMARKS

NO.	DATE	REMARKS
1	04/08/22	PER VILLAGE OF ROMEOVILLE

TYPICAL SECTIONS AND GENERAL NOTES

JIMMY JOHN'S
310 NORTH INDEPENDENCE BLVD
ROMEOVILLE, ILLINOIS

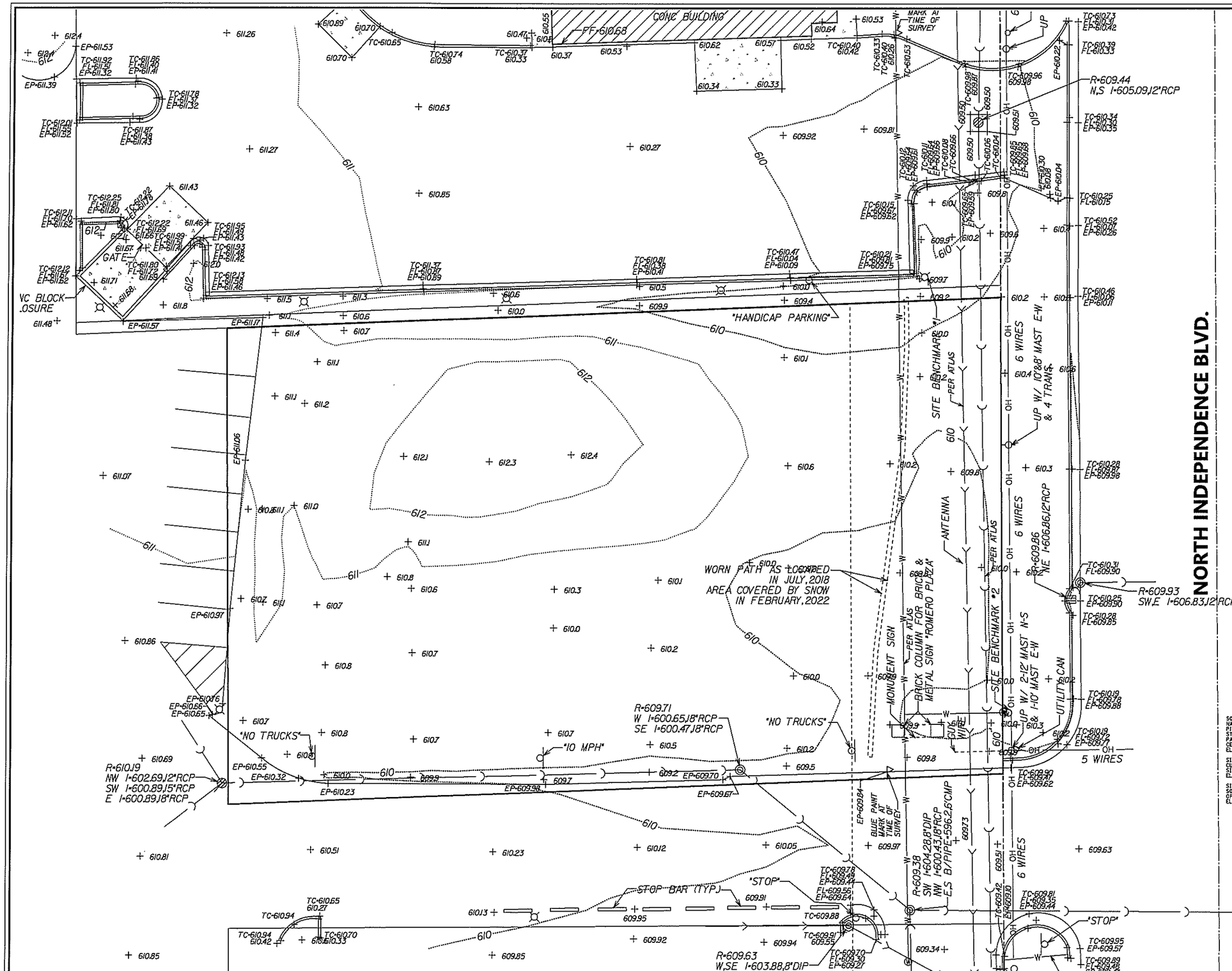
CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS
9575 W. Higgins Road, Suite 700, Rosemont, Illinois 60018
Phone: (847) 696-4060 Fax: (847) 696-4065
SPACECO INC.

FILENAME: 10291GN

DATE: 02/25/22

JOB NO. 10291

SHEET GN



LEGEND

—S—	STORM SEWER
—SS—	SANITARY SEWER
—SD—	DRAINAGE SEWER
—W—	WATER MAIN
—G—	GAS MAIN
—T—	UNDERGROUND TELEPHONE LINE
—E—	UNDERGROUND ELECTRIC LINE
—CATV—	UNDERGROUND CATV LINE
—OH—	OVERHEAD WIRE (ON UTILITY POLES)
—FO—	FIBER OPTIC LINE
	RAILROAD
—X—	FENCE
	CURB/RAIL
	EDGE OF WATER
	WETLAND LIMITS
	SANITARY MANHOLE
	STORM MANHOLE
	CATCH BASIN
	INLET
	FLARED END SECTION
	ELECTRIC MANHOLE
	TELEPHONE MANHOLE
	TELEPHONE UPRIGHT
	ELECTRIC UPRIGHT
	CABLE TV UPRIGHT
	FIRE HYDRANT
	VALVE AND VAULT
	WATER VALVE
	B BOX
	AUXILIARY VALVE
	WELL
	GAS VALVE
	FLARE POLE
	STREET LIGHT
	UTILITY POLE
	TRAFFIC SIGNAL
	TRAFFIC SIGNAL BOX
	SPRINKLER HEAD
	WOODLAND
	WALKOUT
	BORING
	UNDERGROUND MANHOLE
	CONTOUR
X 999.99	SPOT ELEVATION
	RIGHT-OF-WAY MONUMENT
	DISC
	IRON / STEEL ROD
	IRON PIPE
	CUT CROSS
	PK / MAG NAIL
	RAILROAD SPIKE
	SOIL BORING
	TREE WITH SIZE
	PER TREE WITH SIZE
	BUSH
	ASPHALT
	CONCRETE
	GRAVEL

NOTE:

UNDERGROUND UTILITIES ARE SHOWN BY USING PHYSICAL EVIDENCE FOUND ON THE SURFACE AND/OR FROM UTILITY COMPANY FIELD STAKES AND, THEREFORE, THEIR LOCATIONS ARE APPROXIMATE AND SUSPECTED AND MAY NOT BE COMPLETELY ACCURATE. FOR MORE ACCURATE LOCATION, FIELD EXCAVATE.

PIPE FLOW DIRECTIONS, IF SHOWN, ARE BASED ON FIELD INVERT ELEVATIONS UNLESS EXISTING PLANS INDICATE OTHERWISE, IN WHICH CASE THE EXISTING PLAN FLOW DIRECTION IS SHOWN.

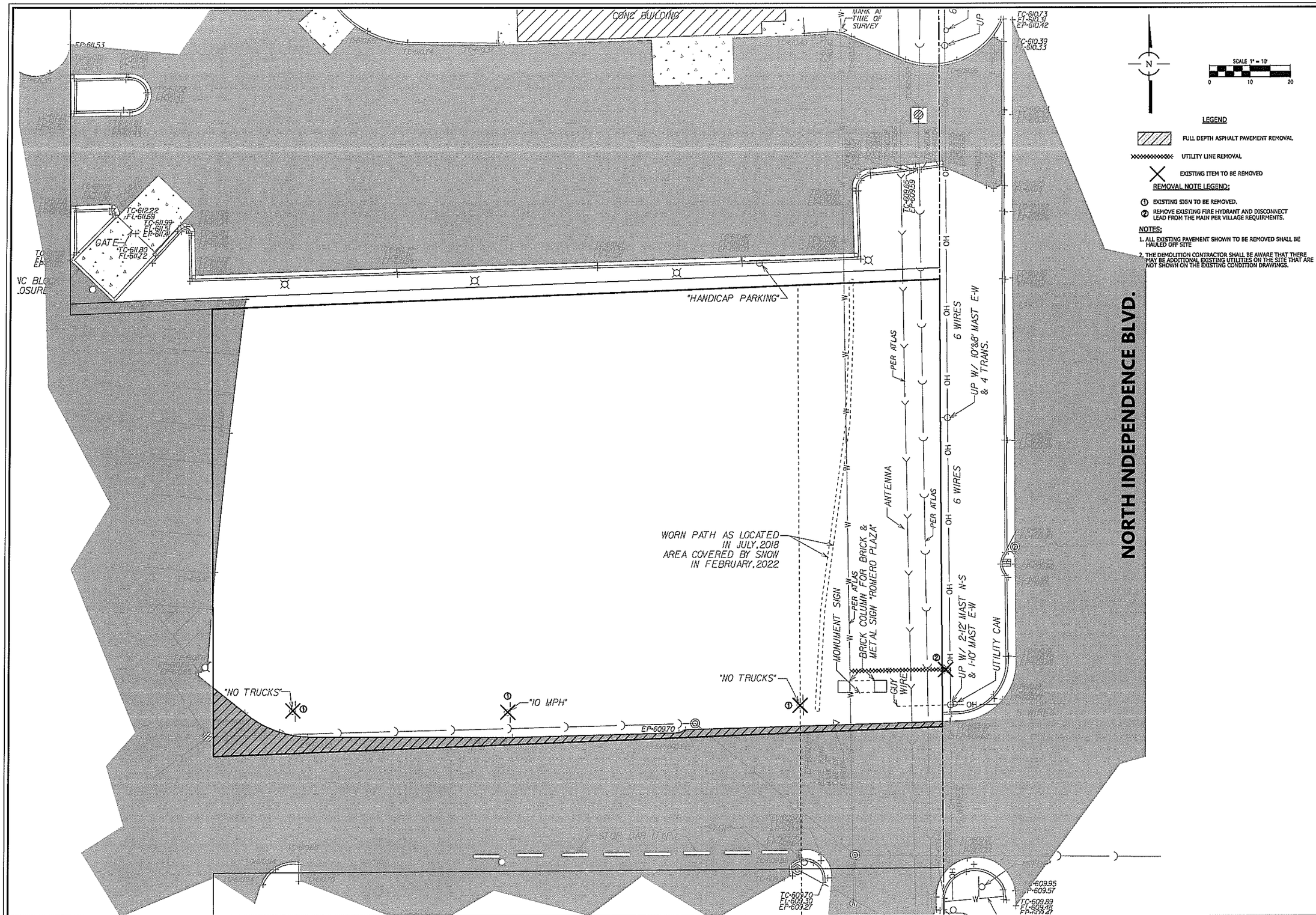
LAST DATE OF FIELD WORK: JULY 14, 2018

SOURCE BENCHMARK:
NATIONAL GEODETIC SURVEY
PID: DP5607
STATION (SURVEY DISK) IS LOCATED 8.5' WEST OF THE EDGE OF PAVEMENT OF STATE HIGHWAY 53 SOUTH, 46.5' SOUTH OF THE CENTERLINE OF AIRPORT ROAD.
ELEVATION = 614.88 NAVD 88

SITE BENCHMARK #1:
CUT CROSS ON LIGHT POLE AT THE NORTHEAST CORNER OF THE SITE.
ELEVATION = 612.36 NAVD 88

SITE BENCHMARK #2:
SOUTHWEST FIRE HYDRANT TAG BOLT AT THE SOUTHEAST CORNER OF THE SITE.
ELEVATION = 612.36 NAVD 88

NO.	DATE	REMARKS



LEGEND

FULL DEPTH ASPHALT PAVEMENT REMOVAL

UTILITY LINE REMOVAL

EXISTING ITEM TO BE REMOVED

REMOVAL NOTE LEGEND:

1. EXISTING SIGN TO BE REMOVED.
2. REMOVE EXISTING FIRE HYDRANT AND DISCONNECT LEAD FROM THE MAIN PER VILLAGE REQUIRMENTS.

NOTES:

1. ALL EXISTING PAVEMENT SHOWN TO BE REMOVED SHALL BE HAULED OFF SITE
2. THE DEMOLITION CONTRACTOR SHALL BE AWARE THAT THERE MAY BE ADDITIONAL EXISTING UTILITIES ON THE SITE THAT ARE NOT SHOWN ON THE EXISTING CONDITION DRAWINGS.

NO.	DATE	REMARKS

NO.	DATE	REMARKS
1	04/08/22	PER VILLAGE OF ROMEOVILLE

DEMOLITION PLAN

JIMMY JOHN'S

310 NORTH INDEPENDENCE BLVD
ROMEOVILLE, ILLINOIS

CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS

9575 W. Higgins Road, Suite 700,
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Phone: (847) 696-4600 Fax: (847) 696-4605

SPACECO INC.

FILENAME: 10291DEMO

DATE: 02/25/22

JOB NO. 10291

SHEET
DEMO
4 OF 13

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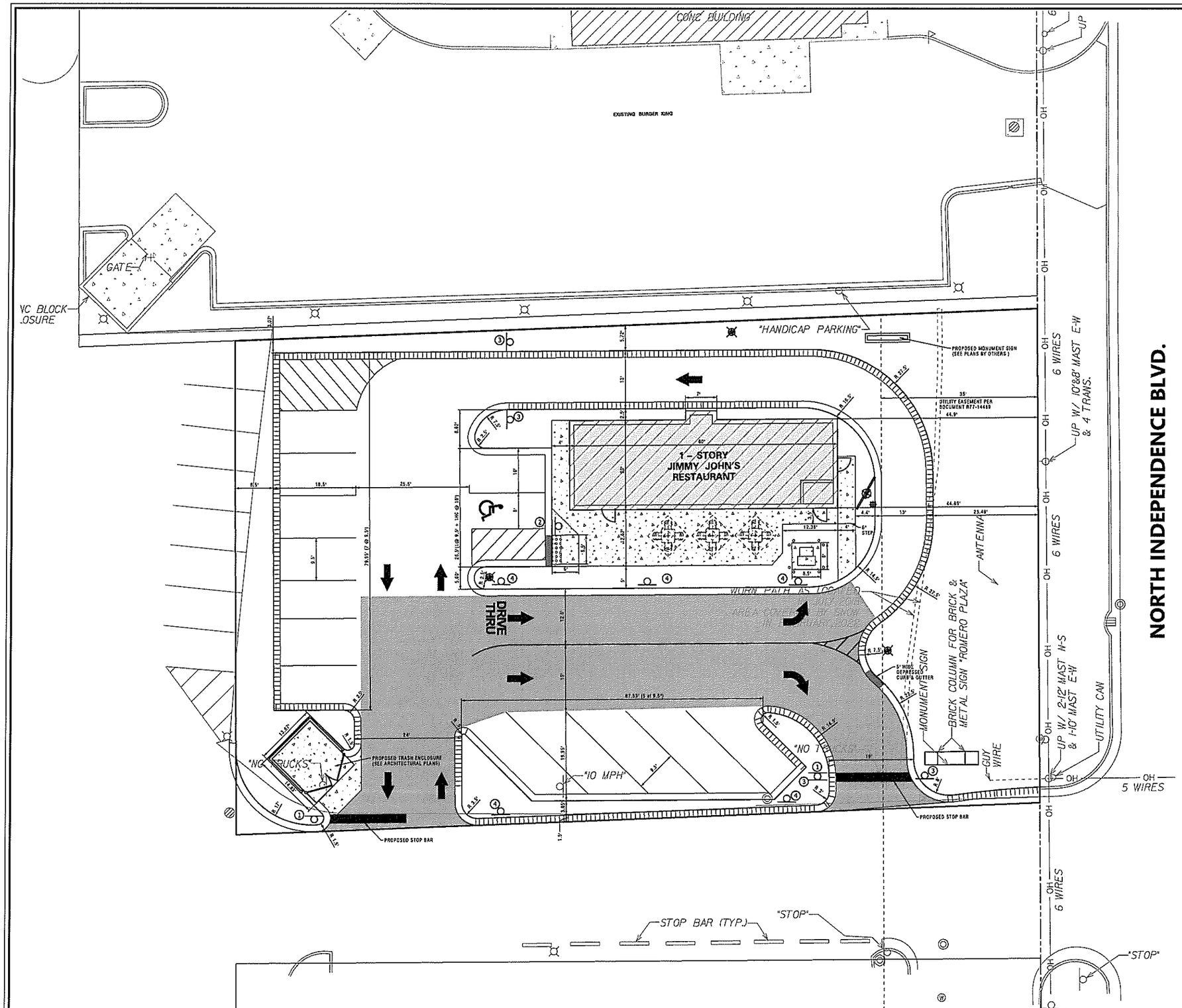

SCALE 1" = 10'

0 10 20

LEGEND

- HEAVY DUTY ASPHALT PAVEMENT (SEE SHEET GN)
- LIGHT DUTY ASPHALT PAVEMENT (SEE SHEET GN)
- CONCRTETE APRON PAVEMENT (SEE SHEET GN)
- CONCRETE SIDEWALK (SEE SHEET GN)
- CONCRETE SIDEWALK HC RAMP (5' WIDE UNLESS NOTED)
- REVERSE PITCHED CURB AND GUTTER
- STANDARD PITCHED CURB AND GUTTER
- DEPRESSED CURB & GUTTER
- DETECTABLE WARNING TILES EAST JORDAN INSERTS, HEAVY DUTY LOAD RATING, BRICK RED POWDER COATING RAL3016 TWO 30"X24" PLATES ARE REQUIRED FOR 5' WALKS.
- SIGN
- LIGHT POLE (DESIGN BY OTHERS)

SIGN LEGEND:

1. STOP — R1-1 30" x 30"
2. RESERVED PARKING 9250 FINE — R7-8
3. DO NOT ENTER — R5-1
4. FINE UNIT — R7-SPEC 12" X 18"

NOTES

1. ALL DIMENSIONS ARE FROM BACK OF CURB OR OUTSIDE FACE OF BUILDING.
2. ALL PAVEMENT MARKINGS FOR STANDARD STALLS SHALL BE 4" HIGH QUALITY WHITE PAINT, MANUFACTURED SPECIFICALLY FOR PAVEMENT STRIPING. ADA STALLS SHALL BE STIPED WITH YELLOW PAINT, MANUFACTURED SPECIFICALLY FOR PAVEMENT STRIPING.
3. THE CROSS SLOPE ON SIDEWALK SHALL NOT EXCEED 1.5%
4. SEE SHEET GN FOR PAVEMENT SECTIONS.
5. THREE (3) DRILLED AND GROUTED NO. 5 REINFORCING BARS OR EXPANSION TIE ANCHORS, 5/8" IN DIAMETER, SHALL BE USED TO TIE THE NEW CURB AND GUTTER TO THE EXISTING CURB AND GUTTER ON EACH SIDE. A MINIMUM 36" PAVEMENT PATCH IS REQUIRED ADJACENT TO REMOVED CURB AND GUTTER TO ENSURE PROPER COMPACTION.

PARKING SUMMARY

	LOT 1
STANDARD STALLS	13
ADA STALLS	1

SITE AREA TABLE

IMPERVIOUS AREA	13,602 S.F.	68.4% OF TOTAL
GREEN SPACE AREA	6,277 S.F.	31.6% OF TOTAL
TOTAL SITE AREA	19,879 S.F.	100% OF TOTAL
BUILDING AREA	1,214 S.F.	F.A.R. = 0.06

NO.	DATE	REMARKS

NO.	DATE	REMARKS
2	05/09/22	PER VILLAGE OF ROMEOVILLE
1	04/08/22	PER VILLAGE OF ROMEOVILLE

GEOMETRIC PLAN

JIMMY JOHN'S

310 NORTH INDEPENDENCE BLVD
ROMEOVILLE, ILLINOIS

CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
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SPACECO INC.

FILENAME: 10291GM

DATE: 02/25/22

JOB NO. 10291

SHEET GM

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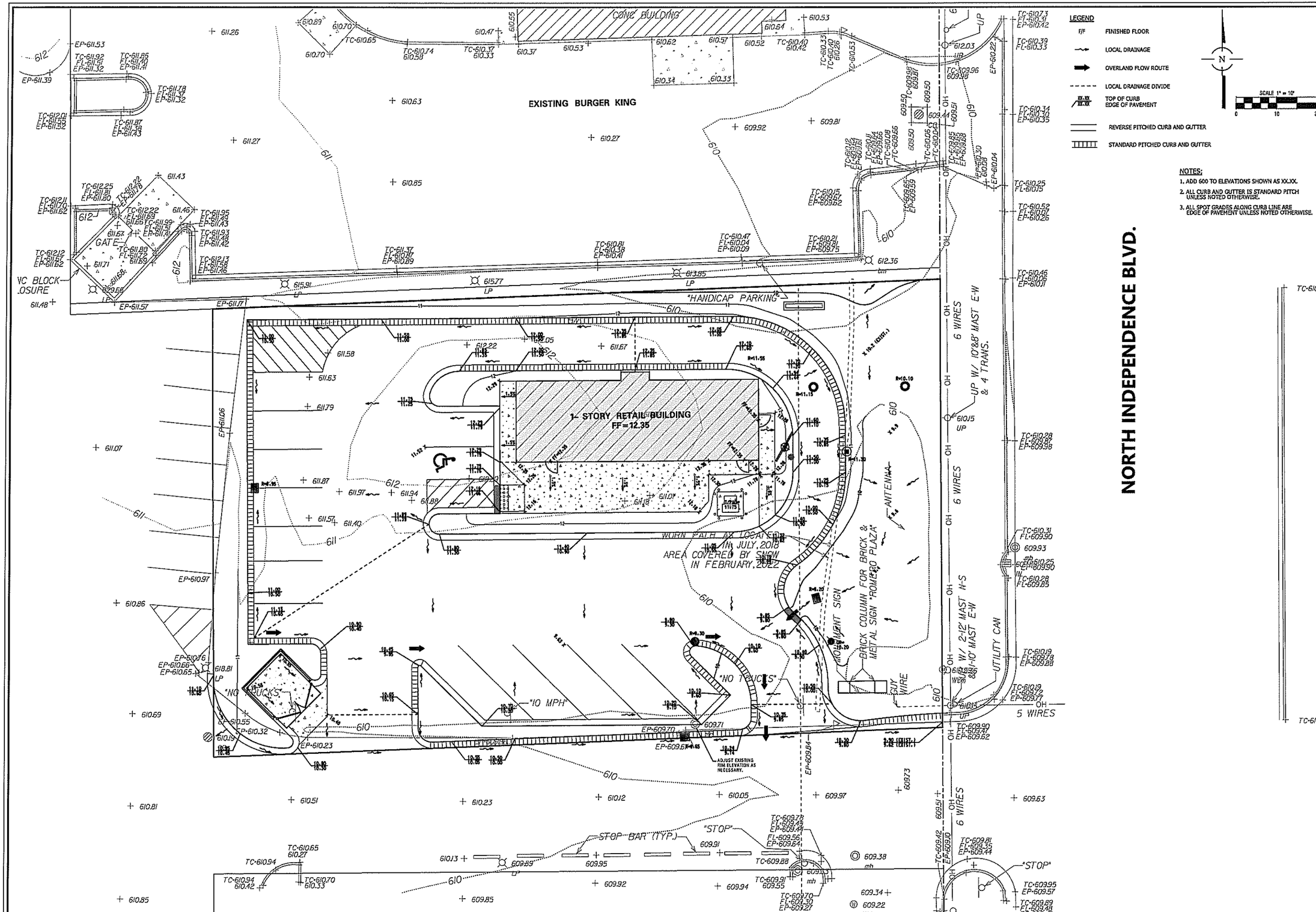

NOTES:

1. ADD 600 TO ELEVATIONS SHOWN AS XX.XX.
2. ALL CURB AND GUTTER IS STANDARD PITCH UNLESS NOTED OTHERWISE.
3. ALL SPOT GRADES ALONG CURB LINE ARE EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.

NORTH INDEPENDENCE BLVD.

NO.	DATE	REMARKS

NO.	DATE	REMARKS
1	04/08/22	PER VILLAGE OF ROMEOVILLE

GRADING PLAN

JIMMY JOHN'S

310 NORTH INDEPENDENCE BLVD
ROMEOVILLE, ILLINOIS

CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS

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Phone: (847) 696-4100 Fax: (847) 696-4365

SPACECO INC.

FILENAME: 10291GR

DATE: 02/25/22

JOB NO. 10291

SHEET GR
6 OF 13

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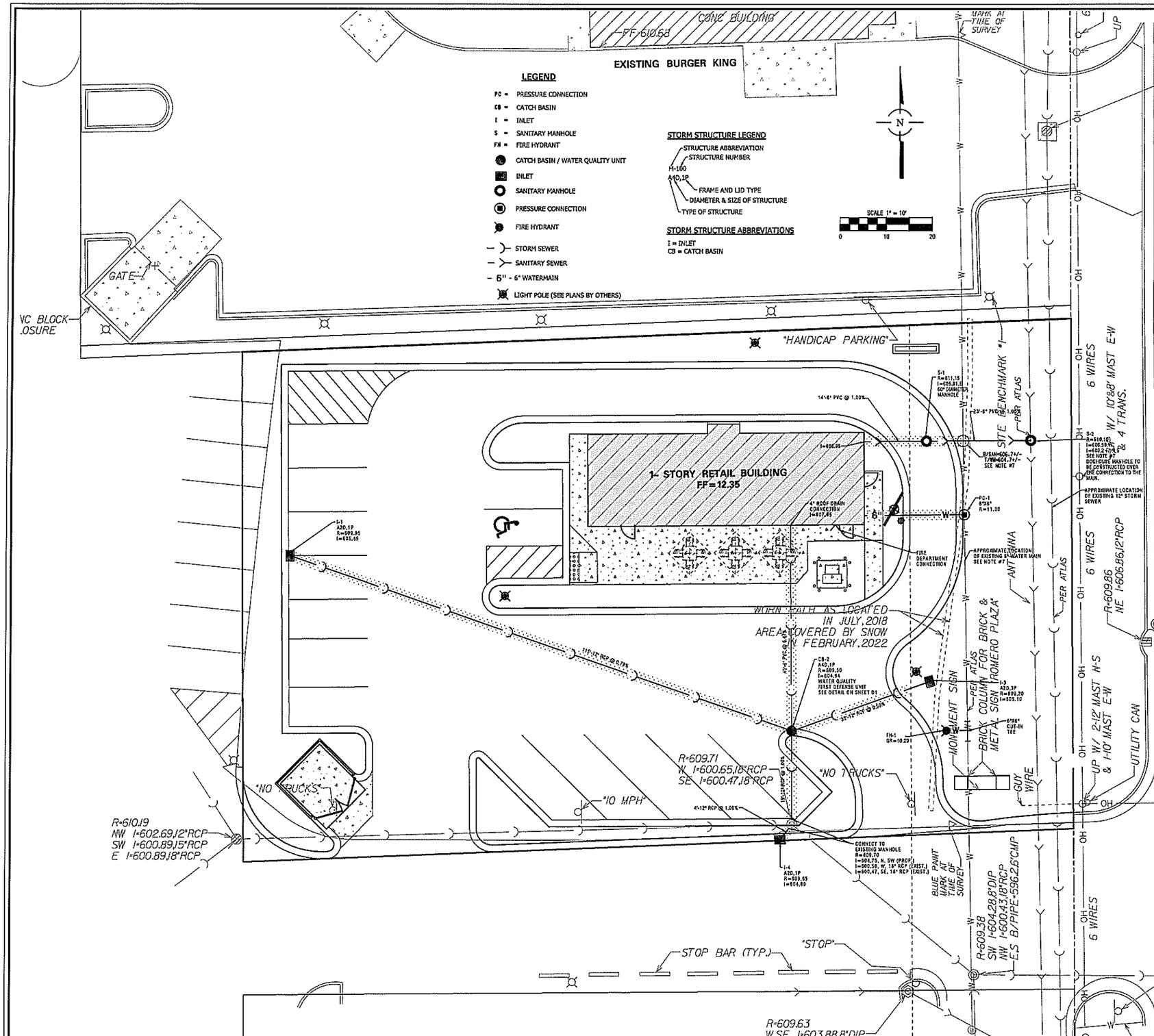


NOTES:

1. ALL SANITARY SEWERS SHALL BE PVC SDR 26 UNLESS NOTED OTHERWISE.
2. ALL WATER MAINS SHALL BE D.I.P.-CLASS 52 UNLESS NOTED OTHERWISE. MEGALUGS AND THRUST BLOCKS ARE REQUIRED FOR ALL WATERMAIN FITTINGS.
3. INDICATES TRENCH BACKFILL REQUIRED.
4. FRAME AND GRATE/LID FOR STORM SEWER STRUCTURES
   1C - MANHOLE-NEENAH R-2504-C FRAME WITH TYPE "B" CLOSED LID
   1P - INLET, CATCH BASIN-NEENAH R-2504-C WITH TYPE "D" GRATE
   3P - INLET, CATCH BASIN-NEENAH R-4340-B BEEHIVE GRATE
5. DESIGN OF WIRING AND CIRCUITRY OF LIGHTING WILL BE BY OTHERS.
6. ALL RESTRAINED WATER MAIN JOINTS SHALL BE U.S. PIPE "FIELD LOK" GASKET OR APPROVED EQUAL.
7. UNDERGROUND CONTRACTOR SHALL FIELD VERIFY EXISTING SEWER MAIN AND WATER MAIN LOCATIONS AND DEPTHS PRIOR TO ORDERING PROPOSED SEWER AND WATER STRUCTURES. NOTIFY SPACECO, INC. OF ANY DISCREPANCIES.

WATER MAIN NOTES:

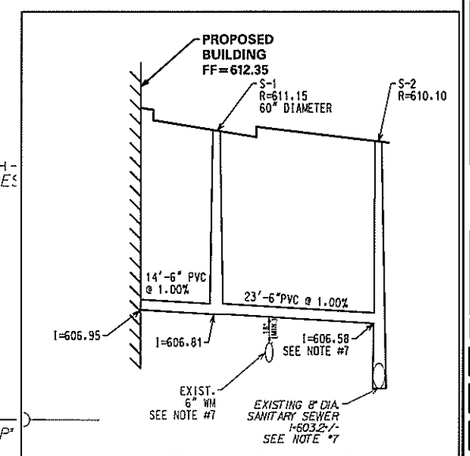
1. MINIMUM DEPTH OF COVER FOR THE WATER MAIN IS 5.0'.
2. ALL WATERMAINS MUST BE WRAPPED IN V-BIO POLYETHYLENE USING ALTERNATE MODIFIED METHOD A: WET TRENCH CONDITIONS.
3. A LAYER OF ARC-SPRAYED ZINC PER ISO 8179 IS REQUIRED ON EXTERIOR OF PIPE.
4. ALL JOINTS MUST BE RESTRAINED WITH MEGALUGS (EBAA IRON) ONLY (NO CONCRETE THRUST BLOCKS).
5. ALL VALVE VAULTS SHALL BE A MINIMUM OF 5' DIAMETER.
6. FRAME AND COVER SHALL BE EAST JORDAN #1050Z1 EMBOSSED WITH 1020A HD "WATER" AND "VILLAGE OF ROMEOVILLE".
7. ALL JOINTS NEED TO BE EXTERNALLY WRAPPED WITH MACWRAP (MINIMUM 9" WIDE) OR EQUAL.
8. RUBBER GASKETED BOOTS ARE REQUIRED FOR ALL PENETRATIONS THROUGH THE MANHOLE WALL EXCEPT FOR DOGHOUSE MANHOLES (I.E. REQUIRED FOR PRESSURE CONNECTIONS) WHERE BRICK/MORTAR WITH HYDROPLUG CEMENT IS REQUIRED ON BOTH THE INSIDE AND OUTSIDE OF THE PENETRATION.
9. INTERNAL/EXTERNAL CHIMNEY SEALS ARE REQUIRED.
10. MINIMUM OF TWO ADJUSTING RINGS (MIN. 6" ADJUSTMENT HEIGHT) AND MAXIMUM OF THREE RINGS (MAX. 10" ADJUSTING HEIGHT). NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, TOP RING SHOULD BE EJIW INFRA-RISER RUBBER COMPOSITE ADJUSTMENT RISERS (MINIMUM 2" THICK).

SANITARY SEWER NOTES:

1. WHEN UTILITY STRUCTURE ADJUSTMENT IS NECESSARY, A MINIMUM OF TWO ADJUSTING RINGS (MIN. 6" ADJUSTING HEIGHT) AND A MAXIMUM OF THREE RINGS (MAX. 10" ADJUSTING HEIGHT). NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, TOP RING SHOULD BE RUBBER. USE ONE (1) EJIW INFRA-RISER RUBBER COMPOSITE.
2. ALL SANITARY MANHOLE CASTINGS, ADJUSTING RINGS AND MANHOLE SECTIONS SHALL BE SET IN BUTYL ROPE OR APPROVED EQUAL. EACH MANHOLE CONE AND BARREL SECTION JOINT SHALL ALSO BE EXTERNALLY SEALED WITH A 6" WIDE SEALING BAND OF RUBBER AND MASTIC. THE BAND SHALL HAVE AN OUTER LAYER OF RUBBER OR POLYETHYLENE WITH AN UNDER LAYER OF RUBBERIZED MASTIC MEETING THE REQUIREMENTS OF ASTM C877-02 (STANDARD SPECIFICATION FOR EXTERNAL SEALING BANDS FOR CONCRETE PIPE, MANHOLES, AND PRECAST BOX SECTIONS.) PIPE CONNECTION TO NEW AND EXISTING MANHOLES THROUGH OPENINGS (CAST OR CORE-DRILLED) SHALL BE PROVIDED WITH A FLEXIBLE RUBBER WATERTIGHT CONNECTOR CONFORMING TO ASTM C-923 (STANDARD SPECIFICATIONS FOR RESILIENT CONNECTIONS BETWEEN REINFORCED CONCRETE MANHOLE STRUCTURES AND PIPES).
3. ALL MANHOLES LOCATED IN AREAS SUBJECT TO INUNDATION MUST HAVE WATERPROOF, BOLT-DOWN FRAMES AND LIDS.
4. SANITARY MANHOLE FRAME AND COVER SHALL BE EAST JORDAN 1050Z1 EMBOSSED WITH "SANITARY" AND "VILLAGE OF ROMEOVILLE". ALL JOINTS NEED TO BE EXTERNALLY WRAPPED (MINIMUM 9" WIDTH) WITH MACWRAP OR EQUAL. RUBBER GASKETED BOOTS ARE REQUIRED FOR THE MAIN AT THE MANHOLE WALL.
5. EXTERNAL CHIMNEY SEALS ARE REQUIRED TO BE INSTALLED ON ALL NEW MANHOLES (AND EXISTING MANHOLES BEING ADJUSTED) AND SHALL CONFORM TO ASTM C923. ACCEPTABLE EXTERNAL CHIMNEY SEALS INCLUDE INFI-SHIELD UNI-BAND.
6. INTERNAL CHIMNEY SEALS SHALL BE RAVEN 581 BRUSH GRADE, A 100% SOLIDS, FLUID APPLIED POLYURIA ELASTOMER REPAIR MATERIAL AS APPLIED PER THE FOLLOWING: FOR SURFACE PREPARATION, SURFACES SHOULD BE THOROUGHLY, CLEAN AND DRY. CONCRETE AND MORTAR MUST BE CURED AT LEAST 7 DAYS AND NO FROST OR WET CONDITIONS CAN BE PRESENT DURING INSTALLATION. REMOVE ALL LOOSE AND FOREIGN MATERIAL. SURFACE MUST BE FREE OF LAITANCE, CONCRETE DUST, DIRT, FORM RELEASE AGENTS, MOISTURE CURING MEMBRANES, LOOOSE CEMENT AND HARDENERS. FILL BUG HOLES, AIR POCKETS AND OTHER VOIDS WITH STEEL-SEAM FT910. AFTER ENSURING THAT ALL SURFACES ARE CLEAN, THE CHIMNEYSEAL COATING MATERIAL SHALL BE APPLIED EVENLY BY SPRAYING OVER THE ENTIRE CHIMNEY SEAL AREA INCLUDING THE FRAME JOINT AREA AND THE VERTICAL RISER OF THE MANHOLE CONE INCLUDING ALL EXTENSIONS TO THE CHIMNEY AREA. APPLICATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND FILM SHALL BE APPLIED AT A WET MILS SPREADING RATE OF BETWEEN 100 TO 125 MILS. THE FINAL INTERNAL CHIMNEY SEAL SHALL PASS VISUAL INSPECTION AND BE COMPLETELY FREE OF PINHOLES OR VOIDS.

STORM SEWER NOTES:

1. STORM SEWER JOINTS MUST BE FLEXIBLE GASKET O-RINGS PER ASTM C361, ASTM C433, AND ASTM C1619.
2. FOR CLOSED LID STRUCTURES, FRAME AND COVER SHALL BE EAST JORDAN 1050Z1 EMBOSSED WITH "STORM" AND "VILLAGE OF ROMEOVILLE".



SANITARY SERVICE PROFILE
N.T.S.

NO.	DATE	REMARKS
2	05/09/22	PER VILLAGE OF ROMEOVILLE
1	04/08/22	PER VILLAGE OF ROMEOVILLE

UTILITY PLAN

JIMMY JOHN'S
310 NORTH INDEPENDENCE BLVD
ROMEOVILLE, ILLINOIS

CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS
9575 W. Higgins Road, Suite 700,
Rosemont, Illinois 60018
Phone: (847) 696-4400 Fax: (847) 696-4405
SPACECO INC.

FILENAME: 10291UT
DATE: 02/25/22
JOB NO. 10291
SHEET UT
7 OF 13

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

1. SITE DESCRIPTION

A. The following is a description of the nature of the construction activity: Construction of a 3-story restaurant building with utilities and an asphalt parking lot

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

Describe proposed construction sequence, sample follows:

1) Install perimeter sediment control measures
   a) Selective vegetation removal for silt fence installation
   b) Silt fence installation
   c) Construction fencing around areas not to be disturbed
   d) Stabilized construction entrance
2) Clear and grub (as necessary)
3) Strip topsoil, stockpile topsoil and grade site
4) Temporarily stabilize topsoil stockpiles (seed and silt fence around toe of slope)
5) Install storm sewer, sanitary sewer, watermain and associated inlet & outlet protection
6) Temporarily stabilize all areas including lots that have reached mass grade
7) Install building and pavement
8) Remove all temporary soil erosion and sediment control measures after the site is stabilized with vegetation

C. The site has a total acreage of approximately 0.45 acres. Construction activity will disturb approximately 0.45 acres of the site.

C. 1) An estimated runoff coefficient of the site after construction activities are completed is 0.75.
   2) Existing data describing the soil or quality of any discharge from the site is included in "Report of Soils Exploration" by TSC.

E. Refer to Sheets GR & SE1 for a site plan indicating:
   1) drainage patterns;
   2) approximate slopes anticipated before and after major grading activities;
   3) locations where vehicles enter or exit the site and controls to minimize off-site sediment tracking;
   4) areas of soil disturbance;
   5) the location of major structural and nonstructural controls;
   6) the location of areas where stabilization practices are expected to occur;

F.1) The name of the ultimate receiving water is: Des Plaines River.
   2) The extent of wetland acreage at the site is 0 acres.

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

- sediment from disturbed soils
- portable sanitary stations
- fuel tanks
- staging areas
- waste containers
- chemical storage areas
- oil or other petroleum products
- adhesives
- tar
- solvents
- detergents
- fertilizers
- raw materials (e.g., bagged portland cement)
- construction debris
- landscape waste
- concrete and concrete trucks
- other

2. CONTROLS

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

A. Approved State or Local Plans

The management practices, controls and other provisions contained in the SWPPP should be at least as protective as the requirements contained in the Illinois Environmental Protection Agency's (IEPA) and the United States Department of Agriculture's Natural Resource Conservation Service Illinois Urban Manual, 2012. Requirements specified in sediment and erosion control site plans or site permits or storm water management site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of a Notice of Intent (NOI) to be authorized to discharge under the ILR10 permit, incorporated by reference and are enforceable under the ILR10 permit even if they are not specifically included in a SWPPP required under the ILR10 permit. This provision does not apply to provisions of master plans, comprehensive plans, non-enforceable guidelines or technical guidance documents that are not identified in a specific plan or permit that is issued for the construction site.

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

- Village of Romeoville
- IEPA
- U.S. Army Corps of Engineers

B. Control Implementation Schedule

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

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

C. Erosion and Sediment Controls

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

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

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

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

- permanent seeding
- temporary seeding
- erosion control blanket
- other measures

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

Stabilization of disturbed areas must be initiated within 1 working day of permanent or temporary cessation of earth activities and shall be completed as soon as possible but not later than 14 days from the initiation of stabilization work in an area. Exceptions to these time frames are specified 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. Temporary stabilization techniques and materials shall conform to the SWPPP.

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

- stabilized construction entrance
- silt fence
- other measures

D. Storm Water Management

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

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

- detention basins (wet basins, dry basins, etc.)
- retention basins
- vegetated swales
- infiltration trenches
- other measures

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

E. Waste Management

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

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

F. 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. When practicable, a sign should be posted at each location to identify the washout. To the extent practicable, concrete washout areas should be located a reasonable distance from a storm water drainage inlet or watercourse, and should be located at least 10 feet behind the curb. If the washout area is adjacent to a paved road, A stabilized entrance 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 50% capacity is reached. Retained concrete can be properly recycled and used again on site (as approved by the Engineer) or hauled off site to an appropriate landfill.

G. 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.

H. Vehicle Storage and Maintenance

When not in use, construction vehicles should be stored in a designated area(s) outside of the regulatory floodplain, away from any natural or created watercourse, pond, drainage-way or storm drain. Controls should be installed to minimize the potential of runoff from the storage area(s) from reaching storm drains or water courses. Vehicle maintenance (including non-routine maintenance as well as on-site repairs) should be made within a designated area(s) to prevent the migration of mechanical fluids (oil, antifreeze, etc.) into watercourses, wetlands or storm drains. Drip pans or absorbents 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 vehicle-related chemicals in accordance with United States Environmental Protection Agency (USEPA) and IEPA regulations and per Material Safety Data Sheet (MSDS) and/or manufacturer instructions. Contractors should immediately report spills to the Primary Contact.

I. Material Storage and Good Housekeeping

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

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

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

- An effort should be made to store only enough product required to do the job.
- All materials stored on site should be stored in a neat, orderly manner in their appropriate containers and adequately protected from the environment.
- Products should be kept in their original containers with the original manufacturer's label.
- Substances should not be mixed with one another unless recommended by the manufacturer.
- Operations should be observed as necessary to ensure proper use and disposal of materials on site.
- Whenever possible, all of a product should be used up before disposing of the container.
- Manufacturer's recommendations for proper use and disposal should be followed.

J. Management of Portable Sanitary Stations

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

K. Spill Prevention and Clean-Up Procedures

Manufacturer's recommended methods for spill clean-up should be available and site personnel should be made aware of the procedures and the location of the information and clean-up supplies. Materials and equipment necessary for spill clean-up should be kept in the material storage area on site. Equipment and materials should include, but are not limited to, brooms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust and plastic and/or metal trash containers specifically for this purpose. Discharges of a hazardous substance or oil caused by a spill (e.g., a spill of oil into a separate storm sewer or Waters of the State) are not authorized by the ILR10 permit. If a spill occurs, notify the Primary Contact immediately. The construction site should have the capacity to control, contain, and remove spills, if they occur. Spills should be cleaned up immediately (after discovery) in accordance with MSDS and should not be buried on site or washed into storm sewer drainage inlets, drainage-ways, or Waters of the State.

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

In addition to the good housekeeping and other management practices discussed in the previous sections of these Notes, the following minimum practices should be followed to reduce the risk of spills:

- On-site vehicles should be monitored for leaks and should receive regular preventative maintenance to reduce the chance of leakage.
- Petroleum products should be stored in tightly sealed and clearly labeled containers.
- Contractors should follow the manufacturer's recommendations for proper use, storage, and disposal of materials. Excess materials should be disposed of according to the manufacturer's instructions or State and Local regulations, and should not be discharged to the storm sewer or waterbody.

L. De-Watering Operations

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

M. Off-Site Vehicle Tracking

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

N. Topsoil Stockpile Management

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

O. Dust Control

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

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

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

3. MAINTENANCE

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

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

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

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

Stabilized construction entrance: The stabilized construction entrances should be maintained to prevent tracking of sediment onto public streets. Maintenance includes top dressing with additional stone and removing top layers of stone and sediment. The sediment tracked onto the public right-of-way should be removed immediately.

Temporary sediment traps: Temporary sediment traps should be inspected after each period of significant rainfall. Remove sediment and restore the trap to its original dimensions when the sediment has accumulated to one-half the design depth of the permanent pool. Place the sediment that is removed in a designated disposal area. Check the structure for damage from erosion or piping. After all sediment-producing areas have been permanently stabilized, remove the structure and all unstable sediment. Grade the area to blend with the adjoining areas and stabilize properly.

4. INSPECTIONS

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

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

Inspections may be reduced to once per month when construction activities have ceased due to frozen conditions. Weekly inspections will recommence when construction activities are conducted, or if there is 0.5" or greater rain event, or a discharge due to snowmelt occurs.

Each inspection should include the following components:

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

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

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

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

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

F. After the initial contact has been made within the appropriate agency field operations section office, all reports of non-compliance shall be mailed to IEPA 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

5. NON-STORM WATER DISCHARGES

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

- Fire fighting activities
- Fire hydrant flushings
- Water used to wash vehicles where detergents are not used
- Water used to control dust
- Potable water sources including uncontaminated waterline flushings
- Landscape irrigation drainages
- Routine external building wash down which does not use detergents
- Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless spilled materials have been removed) and where detergents have not been used.
- Uncontaminated air conditioning condensate
- Springs
- Irrigation ditches
- Uncontaminated ground water
- Foundation or footing drains where flows are not contaminated with process materials such as solvents

6. PROHIBITED NON-STORMWATER DISCHARGES

- Concrete and wastewater from washout of concrete (unless managed by an appropriate control)
- Drywall compound
- 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 or equipment operation and maintenance
- Soaps, solvents, or detergents
- Toxic or hazardous substances from a spill or other release
- Any other pollutant that could cause or tend to cause water pollution

Pollution prevention measures should be implemented for non-storm water components of the discharge.

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING			A									
DORMANT SEEDING	B										B	
TEMPORARY SEEDING			C				D					
SODDING			E**									
MULCHING	F											

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

B KENTUCKY BLUEGRASS 135 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 45 LBS/ACRE + STRAW MULCH 2 TONS/ACRE.

C SPRING OATS 100 LBS/ACRE

D WHEAT OR CEREAL RYE 150 LBS/ACRE.

E SOD

F STRAW MULCH 2 TONS/ACRE.

* IRRIGATION NEEDED DURING JUNE AND JULY.

** IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD.

SOIL PROTECTION CHART

THIS EROSION CONTROL PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND COMPLIES WITH THE URBAN SOIL EROSION CONTROL AND STANDARDS IN ILLINOIS MANUAL (LATEST EDITION) AND GENERALLY RECOGNIZED METHODS IN USE IN THE AREA.

ENGINEER JAMES C. KAPUSTIAK, P.E. — DATE 02/25/22

NO.	DATE	REMARKS
1	04/08/22	PER VILLAGE OF ROMEOVILLE

SOIL EROSION AND SEDIMENT CONTROL PLAN

JIMMY JOHN'S
310 NORTH INDEPENDENCE BLVD
ROMEOVILLE, ILLINOIS

CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS
9575 W. Higgins Road, Suite 700,
Rosemont, Illinois 60018
Phone: (847) 696-4000 Fax: (847) 696-4005
SPACECO INC.

FILENAME: 10291SE1

DATE: 02/25/22

JOB NO. 10291

SHEET SE1

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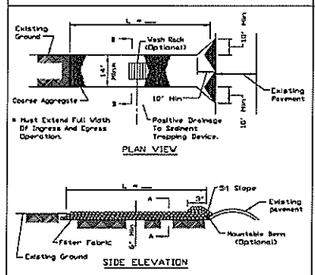
STABILIZED CONSTRUCTION ENTRANCE PLAN

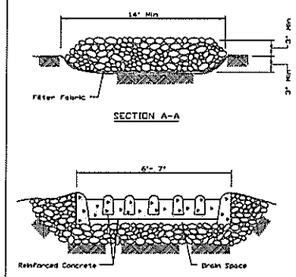


NOTES:
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 29 ROCKFILL using placement Method 1 and Class III compaction.
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to manufacturer's specifications.

PLAN CODE: SE

NRCS — IL-630 — SHEET 1 OF 1

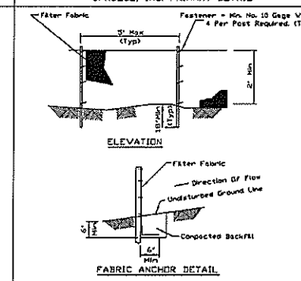
STABILIZED CONSTRUCTION ENTRANCE PLAN



PLAN CODE: SE

NRCS — IL-630 — SHEET 1 OF 1

SILT FENCE PLAN SPACECO, INC. PRIMARY DETAIL

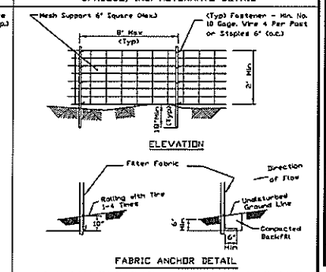


NOTES:
Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
1. Filter fabric shall meet the requirements of material specification 592 Geotextile Table I or 2, Class I with equivalent opening size of at least 20 for nonwoven and 40 for woven.
2. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

PLAN CODE: XX

ILM-620A

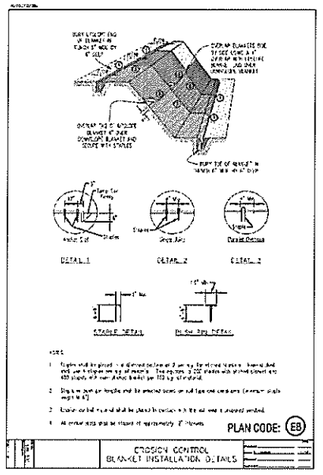
SILT FENCE WITH WIRE SUPPORT PLAN SPACECO, INC. ALTERNATE DETAIL



NOTES
1. SF1 Fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization. SF1 fence shall be placed on the flattest area available.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table I or 2, Class I with equivalent opening size of at least 20 for nonwoven and 40 for woven.
3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

PLAN CODE: XX

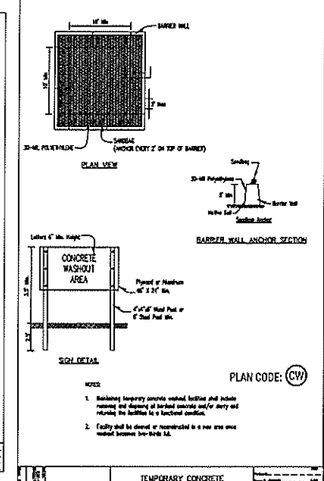
ILM-620A(V)



NOTES:
1. Staples shall be placed at a minimum of 2 per sq. ft. for mixed native flowers and wet meadow seed mixes, and 1 per sq. ft. for all other native flowers and wet meadow seed mixes, with non-biodegradable per 100 sq. ft. standard.
2. Staples shall be metallic and be wire or metal tipped and contain a minimum length of 6".
3. Erosion control mat and shall be placed in contact with the soil over a prepared seedbed.
4. All erosion control mats shall be staked if necessary, if shown.

PLAN CODE: EB

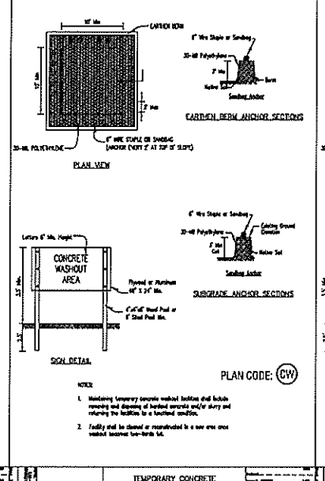
EROSION CONTROL BLANKET INSTALLATION DETAILS



NOTES
1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed to a new area once washout becomes two-thirds full.

PLAN CODE: CW

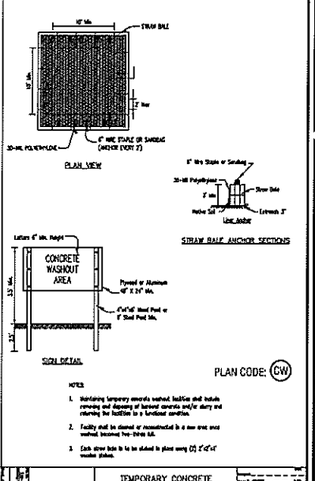
TEMPORARY CONCRETE WASHOUT FACILITY - BARRIER WALL



NOTES
1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed to a new area once washout becomes two-thirds full.

PLAN CODE: CW

TEMPORARY CONCRETE WASHOUT FACILITY - EARTHEN TYPE

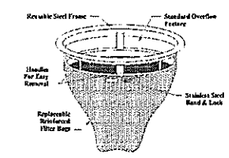


NOTES
1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed to a new area once washout becomes two-thirds full.
3. Each straw bale to be staked in place using (2) 2'x2'x4' wooden stakes.

PLAN CODE: CW

TEMPORARY CONCRETE WASHOUT FACILITY - STRAW BALE

Catch-All - is a manufactured inlet filtration device designed to significantly reduce the ingress of pollutants into stormwater systems, and therefore, improve water quality. Designs are available for a custom fit in virtually any drainage structure casting.



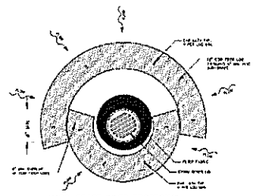
Catch-All HR is available to provide the added benefit of hydrocarbon removal.

Design Benefits
1. Pollution Prevention
   - Sediment Control
2. Pollution Removal
   - Hydrocarbons (Catch-All HR)
   - Total Suspended Sediment
   - Phosphorus*
   - Nitrogen*
   - Heavy Metals*

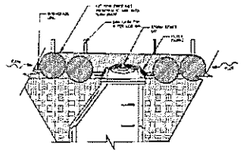
   *In virtue of sediment removal

Applications
1. Site Development & Highway Construction
   - Inlet Protection / Sediment Control
2. Permanent BMP
   - Maintenance Yards
   - Wash Bays
   - Parking Lots & Garages
   - Airports – Tarmac, Cab/Limo Stands, Rental Returns
   - Bank/Fast Food Drive-Ups
   - Reduce Maintenance of Underground Detention Systems
   - Reduce Maintenance of Underground Oil/Water Separators

PLAN CODE: FF



YARD GRATE INLET PROTECTION



YARD GRATE INLET PROTECTION

PLAN CODE: FF

NO.	DATE	REMARKS
1	04/08/22	PER VILLAGE OF ROMEOVILLE

SOIL EROSION AND SEDIMENT CONTROL PLAN

JIMMY JOHN'S
310 NORTH INDEPENDENCE BLVD
ROMEOVILLE, ILLINOIS

CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS
9575 W. Higgins Road, Suite 700
Rosemont, Illinois 60018
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SPACECO INC.

FILENAME: 10291SE2

DATE: 02/25/22

JOB NO. 10291

SHEET SE2
9 OF 13

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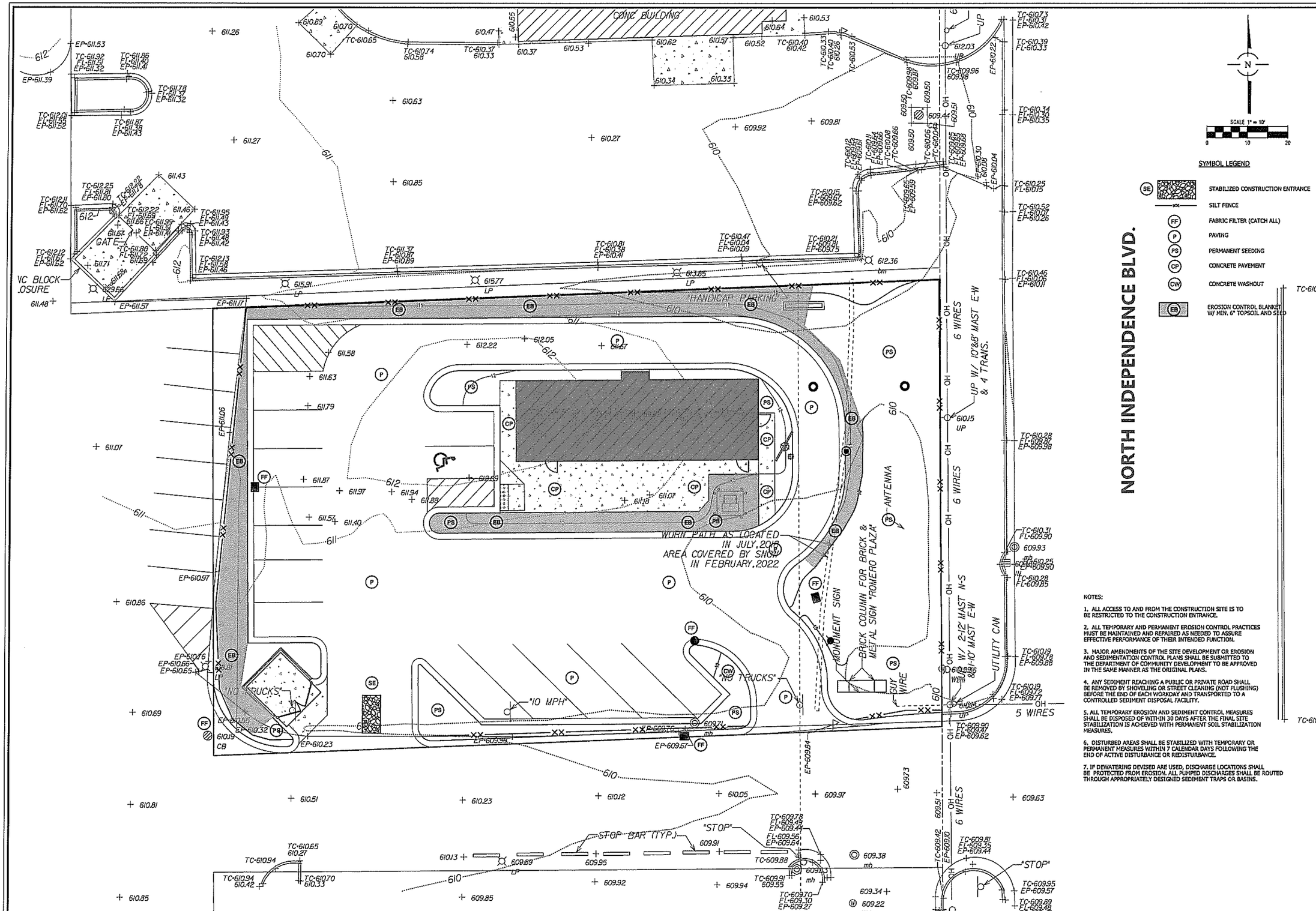

SYMBOL LEGEND

SE	STABILIZED CONSTRUCTION ENTRANCE
xx	SILT FENCE
FF	FABRIC FILTER (CATCH ALL)
P	PAVING
PS	PERMANENT SEEDING
CP	CONCRETE PAVEMENT
CW	CONCRETE WASHOUT
EB	EROSION CONTROL BLANKET W/ MIN. 6" TOPSOIL AND SEED

NOTES:

1. ALL ACCESS TO AND FROM THE CONSTRUCTION SITE IS TO BE RESTRICTED TO THE CONSTRUCTION ENTRANCE.

2. ALL TEMPORARY AND PERMANENT EROSION CONTROL PRACTICES MUST BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE EFFECTIVE PERFORMANCE OF THEIR INTENDED FUNCTION.

3. MAJOR AMENDMENTS OF THE SITE DEVELOPMENT OR EROSION AND SEDIMENTATION CONTROL PLANS SHALL BE SUBMITTED TO THE DEPARTMENT OF COMMUNITY DEVELOPMENT TO BE APPROVED IN THE SAME MANNER AS THE ORIGINAL PLANS.

4. ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BY SHOVELING OR STREET CLEANING (NOT FLUSHING) BEFORE THE END OF EACH WORKDAY AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL FACILITY.

5. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DISPOSED OF WITHIN 30 DAYS AFTER THE FINAL SITE STABILIZATION IS ACHIEVED WITH PERMANENT SOIL STABILIZATION MEASURES.

6. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 7 CALENDAR DAYS FOLLOWING THE END OF ACTIVE DISTURBANCE OR REDISTURBANCE.

7. IF DEWATERING DEVISED ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. ALL PUMPED DISCHARGES SHALL BE ROUTED THROUGH APPROPRIATELY DESIGNED SEDIMENT TRAPS OR BASINS.

NO.	DATE	REMARKS

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SOIL EROSION AND SEDIMENT CONTROL PLAN

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CONSULTING ENGINEERS
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SPACECO INC.

FILENAME: 10291SE3

DATE: 02/25/22

JOB NO. 10291

SHEET SE3
10 OF 13

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EARTHWORK NOTES

1. GENERAL

A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE SOIL AND GROUNDWATER CONDITIONS AT THE SITE. THE CONTRACTOR SHALL OBTAIN AND READ THE GEOTECHNICAL REPORTS AVAILABLE FROM THE OWNER.

B. ANY QUANTITIES IN THE BID PROPOSAL ARE INTENDED AS A GUIDE FOR THE CONTRACTOR'S USE IN DETERMINING THE SCOPE OF THE COMPLETED PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND APPRAISE HIMSELF OF ALL SITE CONDITIONS. THE CONTRACT PRICE SUBMITTED BY THE CONTRACTOR SHALL BE CONSIDERED AS LUMP SUM FOR THE COMPLETE PROJECT. NO CLAIMS FOR EXTRA WORK WILL BE RECOGNIZED UNLESS ORDERED IN WRITING BY THE OWNER.

C. THE CONTRACTOR WILL NOTE THAT THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE FINISHED GRADE ELEVATIONS AND THAT PAVEMENT THICKNESS, TOPSOIL, ETC. MUST BE SUBTRACTED TO DETERMINE SUBGRADE ELEVATIONS.

D. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION, AND PREVENT STORMWATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS. THE FAILURE TO PROVIDE PROPER DRAINAGE WILL NEGATE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION AND TRAFFIC.

E. PLANS FOR THE SITE DEWATERING, IF EMPLOYED, SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER PRIOR TO IMPLEMENTATION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR DEWATERING DURING CONSTRUCTION.

F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE "SOIL EROSION AND SEDIMENTATION CONTROL MEASURES". THE INITIAL ESTABLISHMENT OF EROSION CONTROL PROCEDURES AND THE PLACEMENT OF SILT AND FILTER FENCING, ETC. TO PROTECT ADJACENT PROPERTY, WETLANDS, ETC. SHALL OCCUR BEFORE GRADING BEGINS. A MUNICIPAL EROSION CONTROL INSPECTION MAY BE REQUIRED BEFORE ANY EARTHWORK IS PERFORMED.

G. PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES, THE CONTRACTOR SHALL ERECT A "SNOW FENCE" AROUND ANY TREE DESIGNATED TO BE PRESERVED. SAID FENCE SHALL BE PLACED IN A CIRCLE CENTERED AROUND THE TREE, THE DIAMETER OF WHICH SHALL BE SUCH THAT THE ENTIRE DRIP ZONE (EXTENT OF FURTHEST EXTENDING BRANCHES) SHALL BE WITHIN THE FENCE LIMITS. THE EXISTING GRADE WITHIN THE FENCED AREA SHALL NOT BE DISTURBED.

H. EXCESS MATERIALS, IF NOT UTILIZED AS FILL, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.

I. ALL EARTHWORK SHALL BE DONE UNDER THE SUPERVISION OF AN ILLINOIS LICENSED ENGINEER WHO SPECIALIZES IN THE GEOTECHNICAL FIELD (SOILS ENGINEER). THIS ENGINEER WILL BE RESPONSIBLE FOR ENSURING THAT ALL UNSUITABLE MATERIALS ARE REMOVED. ALL STRUCTURAL FILL MATERIALS ARE PROPERLY PLACED AND COMPACTED, ALL PAVEMENT SUBGRADES ARE PROPERLY PREPARED, PROOF ROLLING SUBGRADES AND BASE COURSES, AND ENSURING THAT ALL WATER RETAINING EMBANKMENTS ARE PROPERLY CONSTRUCTED. THE DEVELOPER PAYS FOR ALL GEOTECHNICAL SERVICES.

2. TOPSOIL EXCAVATION INCLUDES:

A. EXCAVATION OF TOPSOIL AND OTHER STRUCTURALLY UNSUITABLE MATERIALS WITHIN THOSE AREAS THAT WILL REQUIRE EARTH EXCAVATION OR COMPACTED EARTH FILL MATERIAL. EXISTING VEGETATION SHALL BE REMOVED PRIOR TO STRIPPING TOPSOIL OR FILLING AREAS.

B. PLACEMENT OF THE EXCAVATED MATERIAL IN OWNER DESIGNATED AREAS FOR FUTURE USE WITHIN AREAS TO BE LANDSCAPED, AND THOSE AREAS NOT REQUIRING STRUCTURAL FILL MATERIAL. PROVIDE NECESSARY EROSION CONTROL MEASURES FOR STOCKPILE.

C. TOPSOIL STOCKPILED FOR RESPREAD SHALL BE FREE OF CLAY AND SHALL NOT CONTAIN ANY OF THE TRANSITIONAL MATERIAL BETWEEN THE TOPSOIL AND CLAY. THE TRANSITIONAL MATERIAL SHALL BE USED IN NON-STRUCTURAL FILL AREAS OR DISPOSED OF OFF-SITE.

D. TOPSOIL RESPREAD SHALL INCLUDE HAULING AND SPEADING 6" OF TOPSOIL OVER AREAS TO BE LANDSCAPED WHERE SHOWN ON THE PLANS OR DIRECTED BY THE OWNER.

E. MODERATE COMPACTION IS REQUIRED IN NON-STRUCTURAL FILL AREAS.

3. EARTH EXCAVATION INCLUDES:

A. EXCAVATION OF CLAY AND OTHER MATERIALS WHICH ARE SUITABLE FOR USE AS STRUCTURAL FILL. THE EXCAVATION SHALL BE TO WITHIN A TOLERANCE OF 0.1 FEET OF THE PLAN SUBGRADE ELEVATIONS WHILE MAINTAINING PROPER DRAINAGE. THE TOLERANCE WITHIN PAVEMENT AREAS SHALL BE SUCH THAT THE EARTH MATERIALS SHALL "BALANCE" DURING THE FINE GRADING OPERATION.

B. PLACEMENT OF THE CLAY AND OTHER SUITABLE MATERIALS SHALL BE WITHIN THOSE AREAS REQUIRING STRUCTURAL FILL IN ORDER TO ACHIEVE THE PLAN SUBGRADE ELEVATIONS TO WITHIN A TOLERANCE OF 0.1 FEET. THE FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS THAT SHALL NOT EXCEED EIGHT (8) INCHES IN THICKNESS, AND THE WATER CONTENT SHALL BE ADJUSTED IN ORDER TO ACHIEVE REQUIRED COMPACTION.

STRUCTURAL FILL MATERIAL MAY BE PLACED WITHIN THOSE PORTIONS OF THE SITE NOT REQUIRING STRUCTURAL FILL, TO WITHIN SIX (6) INCHES OF THE PLAN FINISHED GRADE ELEVATION. IN AREAS REQUIRING STRUCTURAL FILL, HOWEVER, THIS MATERIAL SHALL NOT BE PLACED OVER TOPSOIL OR OTHER UNSUITABLE MATERIALS UNLESS SPECIFICALLY DIRECTED BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER.

C. COMPACTION OF THE CLAY AND OTHER SUITABLE MATERIALS, SHALL BE TO AT LEAST 93% OF THE MODIFIED PROCTOR DRY DENSITY WITHIN PROPOSED PAVEMENT AREAS, SIDEWALK, ETC. COMPACTION SHALL BE AT LEAST 95% OF THE MODIFIED PROCTOR WITHIN PROPOSED BUILDING PAD AREAS.

D. EXCAVATION: QUANTITIES OF EARTH EXCAVATION INDICATED ELSEWHERE IN THIS CONTRACT HAVE BEEN COMPUTED BY THE END AREA METHOD AS PROVIDED FOR IN SECTION 202 OF THE STANDARD SPECIFICATIONS. EXCAVATED MATERIALS NOT NEEDED FOR THIS JOB SITE SHALL BE LEGALLY DISPOSED OF. PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE PER CUBIC YARD OF EARTH EXCAVATION.

4. UNSUITABLE MATERIAL

UNSUITABLE MATERIAL SHALL BE CONSIDERED AS MATERIAL WHICH IS NOT SUITABLE FOR THE SUPPORT OF PAVEMENT AND BUILDING CONSTRUCTION, AND IS ENCOUNTERED BELOW NORMAL TOPSOIL DEPTHS AND THE PROPOSED SUBGRADE ELEVATION. THE DECISION TO REMOVE SAID MATERIAL, AND TO WHAT EXTENT, SHALL BE MADE BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER.

5. MISCELLANEOUS THE CONTRACTOR SHALL:

A. SPREAD AND COMPACT UNIFORMLY TO THE DEGREE SPECIFIED ALL EXCESS TRENCH SPOIL AFTER COMPLETION OF THE UNDERGROUND IMPROVEMENTS.

B. SCARIFY, DISC, AERATE, AND COMPACT, TO THE DEGREE SPECIFIED, THE UPPER TWELVE (12) INCHES OF THE SUITABLE SUBGRADE MATERIAL, IN ALL AREAS THAT MAY BE SOFT DUE TO EXCESS MOISTURE CONTENT. THIS APPLIES TO CUT AREAS AS WELL AS FILL AREAS.

C. PROVIDE WATER TO ADD TO DRY MATERIAL IN ORDER TO ADJUST THE MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.

D. BACKFILL THE CURB AND GUTTER AFTER ITS CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE MATERIAL. THE CURBS SHALL NOT BE BACKFILLED UNTIL THE CONCRETE HAS CURED FOR AT LEAST 7 DAYS.

E. TRENCH COMPACTION: ALL TRENCHES SHALL BE COMPACTED BY MECHANICAL TECHNIQUES APPROVED BY THE SOILS ENGINEER UNTIL PROPER COMPACTION IS ACHIEVED. THE REQUIREMENT FOR MECHANICAL COMPACTION MAY BE WAIVED IF, IN THE OPINION OF THE SOILS ENGINEER AND THE MUNICIPAL ENGINEER, THE BACKFILLED TRENCHES MEET THE DENSITY REQUIREMENTS. JETTING OF TRENCHES FOR COMPACTION WILL NOT BE ALLOWED.

6. TESTING AND FINAL ACCEPTANCE

A. THE CONTRACTOR SHALL PROVIDE AS A MINIMUM, A FULLY LOADED SIX-WHEEL TANDEM AXLE TRUCK FOR PROOF ROLLING THE PAVEMENT SUBGRADE PRIOR TO THE PLACEMENT OF THE CURB AND GUTTER AND THE BASE MATERIAL. THIS SHALL BE WITNESSED BY MUNICIPAL ENGINEER AND THE OWNER. SEE PAVING SPECIFICATION.

B. ANY UNSUITABLE AREA ENCOUNTERED AS A RESULT OF PROOF ROLLING SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL, OR OTHERWISE CORRECTED, APPROVED BY THE SOILS CONSULTANT.

C. ANY TESTING THAT IS REQUIRED OF THIS CONSTRUCTION IS CONSIDERED INCIDENTAL TO THE COST OF CONSTRUCTION. NO SEPARATE PAYMENT WILL BE MADE.

SIGNING AND PAVEMENT MARKING

1. ALL SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC), MUNICIPAL CODE AND THESE PLANS.

2. CONTRACTOR SHALL ESTABLISH LOCATION OF ALL SIGNS AND MARKINGS FOR APPROVAL BY THE OWNER PRIOR TO INSTALLATION.

3. SIGNS: SIGNS SHALL BE CONSTRUCTED OF 0.080 INCH THICK FLAT ALUMINUM PANELS WITH REFLECTORIZED LEGEND ON THE FACE IN ACCORDANCE WITH (SSRBC) SECTION 720. LEGEND SHALL BE IN ACCORDANCE WITH MUTCD AND AS SHOWN ON THE PLANS.

4. POSTS: SIGN POSTS SHALL BE A HEAVY DUTY STEEL "U" SHAPED CHANNEL WEIGHING 3.0 POUNDS/FOOT SUCH AS A TYPE B METAL POST PER (SSRBC) SECTION 729 (OR; 2" PERFORATED STEEL TUBE PER (SSRBC) SECTION 728).

5. SIGNS AND POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE ABOVE (SSRBC) SECTIONS AND IDOT STANDARD 729001 EXCEPT AS MODIFIED BY THE PLANS.

6. PAVEMENT MARKINGS: ALL PAVEMENT MARKINGS IN THE ROADWAY LIMITS, SUCH AS STOP LINES, CENTERLINES, CROSSWALKS AND DIRECTIONAL ARROWS SHALL BE REFLECTORIZED THERMOPLASTIC PER (SSRBC) SECTION 780, EXCEPT AS MODIFIED BY THE PLANS. (NOTE TO ENGINEER: IDOT PREFERS REFLECTORIZED PAINT ON CONCRETE PAVEMENT - CHECK WITH AGENCY WHO WILL MAINTAIN ROAD.)

7. PAVEMENT MARKINGS ON BIKE PATHS, PARKING LOT STALLS, AND SIMILAR "LOW WEAR" APPLICATION, SHALL BE PAINT IN ACCORDANCE TO (SSRBC) SECTION 780, EXCEPT AS MODIFIED BY THE PLANS. REFLECTIVE BEADS ARE NOT REQUIRED.

8. COLOR, WIDTH, STYLE, AND SIZE OF ALL MARKINGS SHALL BE IN ACCORDANCE WITH (MUTCD) EXCEPT AS MODIFIED BY THE PLANS.

9. THERMOPLASTIC MARKINGS SHALL BE INSTALLED WHEN THE PAVEMENT TEMPERATURE IS 55° F AND RISING. PAINT MARKINGS MAY BE INSTALLED WHEN THE AIR TEMPERATURE IS 50° F AND RISING.

PAVING NOTES

1. GENERAL

A. PAVING WORK INCLUDES FINAL SUBGRADE SHAPING, PREPARATION AND COMPACTION; PLACEMENT OF SUB-BASE OR BASE COURSE MATERIALS; BITUMINOUS BINDER AND/OR SURFACE COURSES; FORMING, FINISHING AND CURING CONCRETE PAVEMENT, CURBS AND WALKS; AND FINAL CLEAN-UP AND ALL RELATED WORK.

B. COMPACTION REQUIREMENTS: [REFERENCE ASTM D-1557 (MODIFIED PROCTOR)] SUB-GRADE = 93%; SUB-BASE = 93%; AGGREGATE BASE COURSE = 95%; BITUMINOUS COURSES = REFER TO SSRBC ARTICLE 406.07. THE SOILS ENGINEER IS RESPONSIBLE FOR ENSURING THAT MATERIALS ARE PROPERLY PLACED AND COMPACTED.

C. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE PROPER BARRICADING, WARNING DEVICES AND THE SAFE MANAGEMENT OF TRAFFIC WITHIN THE AREA OF CONSTRUCTION. ALL SUCH DEVICES AND THEIR INSTALLATION SHALL CONFORM TO THE ILLINOIS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION AND IN ACCORDANCE WITH THE MUNICIPAL CODE.

2. SUB-GRADE PREPARATION

A. EARTHWORK FOR PROPOSED PAVEMENT SUBGRADE SHALL BE FINISHED TO WITHIN 0.1 FOOT, PLUS OR MINUS, OF PLAN ELEVATION. THE CONTRACTOR SHALL SATISFY HIMSELF THAT THE SUBGRADE HAS BEEN PROPERLY PREPARED AND THAT THE FINISH TOP SUBGRADE ELEVATION HAS BEEN GRADED WITHIN TOLERANCES ALLOWED IN THESE SPECIFICATIONS. UNLESS THE CONTRACTOR ADVISES THE OWNER AND ENGINEER IN WRITING PRIOR TO FINE GRADING FOR BASE COURSE CONSTRUCTION, IT IS UNDERSTOOD THAT HE HAS APPROVED AND ACCEPTS THE RESPONSIBILITY FOR THE SUBGRADE.

B. PRIOR TO THE PLACEMENT OF THE BASE COURSE, THE SUBGRADE MUST BE PROOF ROLLED AND INSPECTED FOR UNSUITABLE MATERIALS AND/OR EXCESSIVE MOVEMENT. THE SOILS ENGINEER SHALL CONDUCT AND THE VILLAGE SHALL WITNESS ALL PROOF ROLLS. IF UNSUITABLE SUBGRADE IS ENCOUNTERED, IT SHALL BE CORRECTED IN A MANNER APPROVED BY THE OWNER OR HIS REPRESENTATIVE, THIS MAY INCLUDE ONE OR MORE OF THE FOLLOWING METHODS:
1) SCARIFY DISC AND AERATE.
2) REMOVE AND REPLACE WITH STRUCTURAL CLAY FILL.
3) REMOVE AND REPLACE WITH GRANULAR MATERIAL.
4) USE OF GEOTEXTILE FABRIC.

MAXIMUM DEFLECTION ALLOWED IN ISOLATED AREAS MAY BE 1/4" TO 1/2" IF NO DEFLECTION OCCURS OVER THE MAJORITY OF THE AREA.

C. PRIOR TO THE CONSTRUCTION OF THE CURB AND GUTTER AND THE PLACEMENT OF THE BASE MATERIAL, THE PAVEMENT AREA SHALL BE FINE GRADED TO WITHIN 0.04 FEET (1/2") OF FINAL SUBGRADE ELEVATION, TO A POINT TWO (2) FEET BEYOND THE BACK OF CURB, SO AS TO INSURE THE PROPER THICKNESS OF PAVEMENT COURSES. NO CLAIMS FOR EXCESS QUANTITY OF BASE MATERIALS DUE TO IMPROPER SUBGRADE PREPARATION WILL BE HONORED.

D. PRIOR TO PLACEMENT OF THE BASE COURSE, ALL SUBGRADES MUST BE APPROVED BY THE MUNICIPAL ENGINEER, SOILS ENGINEER AND/OR OWNER.

3. CONCRETE WORK

A. ALL EXTERIOR CONCRETE SHALL BE PORTLAND CEMENT CONCRETE CLASS SI OR PV PER (SSRBC) SECTION 1020.04 WITH AIR ENTRAINMENT OF NOT LESS THAN FIVE (5%) OR MORE THAN EIGHT (8%) PERCENT. CONCRETE SHALL BE A MINIMUM OF SIX (6) BAG MIX AND SHALL DEVELOP A MINIMUM OF 3,500 PSI COMPRESSIVE STRENGTH AT FOURTEEN (14) DAYS. ALL CONCRETE SHALL BE BROOM FINISHED PERPENDICULAR TO THE DIRECTION OF TRAVEL. THE ADDITION OF CALCIUM CHLORIDE AND THE SUBSTITUTION OF FLY ASH FOR PORTLAND CEMENT IS PROHIBITED. 1.50 lbs OF COLLATED, FILLIBRATED, POLYPROPYLENE OLEFIN FIBERS 0.50 TO 0.75 INCHES IN LENGTH SHALL BE ADDED TO EACH CUBIC YARD OF CONCRETE USED FOR SIDEWALLS. THE FIBERS SHALL BE AS MANUFACTURED UNDER THE NAME "FIBERMESH" OR EQUAL.

B. CONCRETE CURB AND/OR COMBINATION CURB AND GUTTER SHALL BE OF THE TYPE SHOWN ON THE PLANS. THE CONTRACTOR IS CAUTIONED TO REFER TO THE CONSTRUCTION STANDARDS AND THE PAVEMENT CROSS-SECTION TO DETERMINE THE GUTTER FLAG THICKNESS AND THE AGGREGATE BASE COURSE THICKNESS BENEATH THE CURB AND GUTTER. PREMOLDED FIBER EXPANSION JOINTS, WITH TWO 3/4" X 18" EPOXY COATED STEEL DOWEL BARS, SHALL BE INSTALLED AT SIXTY (60) FOOT INTERVALS AND AT ALL PC'S, PT'S AND CURB RETURNS. ALTERNATE ENDS OF THE DOWEL BARS SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES. SAWED OR FORMED CONTRACTION JOINTS SHALL BE PROVIDED AT NO GREATER THAN FIFTEEN (15) FOOT INTERVALS BETWEEN EXPANSION JOINTS. NO HONEY-COMBING OF THE CURB AND GUTTER WILL BE ACCEPTED.

C. CURBS SHALL BE DEPRESSED AT LOCATIONS WHERE PUBLIC WALKS/PEDESTRIAN PATHS INTERSECT CURB LINES, AND OTHER LOCATIONS AS DIRECTED, FOR THE PURPOSE OF PROVIDING ACCESSIBILITY. (SEE CONSTRUCTION STANDARDS FOR DETAIL). BARRIER CURB SHALL ALSO BE DEPRESSED AT DRIVEWAY LOCATIONS.

D. THE CURBS SHALL BE BACKFILLED AFTER THEIR CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE. THE CONCRETE MUST CURE FOR AT LEAST SEVEN DAYS BEFORE THE CURBS ARE BACKFILLED.

E. CONCRETE SIDEWALK SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. PROVIDE SCORED JOINTS AT 5 FOOT INTERVALS AND 1/2 " PREMOLDED FIBER EXPANSION JOINTS AT 50 FOOT INTERVALS, AND ADJACENT TO CONCRETE CURBS, DRIVEWAYS, FOUNDATIONS, ETC.

F. CONCRETE DRIVEWAY APRONS SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. PROVIDE 6" X 6" NO. 6 WELDED WIRE MESH IN DRIVEWAYS. PROVIDE 1/2 " PREMOLDED FIBER EXPANSION JOINT ADJACENT TO CURBS AND CONCRETE SIDEWALKS. PROVIDE SAWED OR FORMED CONTRACTION JOINT AT MID-POINT AND 15 FOOT MAXIMUM.

G. STANDARD REINFORCED CONCRETE PAVEMENT SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. SAWED OR FORMED CONTRACTION EXPANSION JOINTS SHALL BE AS SHOWN ON THE PLANS.

H. CONCRETE CURING AND PROTECTION SHALL BE IN ACCORDANCE WITH (SSRBC) - METHOD I, II, OR III.

I. THE COST OF AGGREGATE BASE OR SUB-BASE UNDER CONCRETE WORK SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE CONCRETE ITEM.

4. FLEXIBLE PAVEMENT

A. THE PAVEMENT MATERIALS FOR BITUMINOUS STREETS, PARKING LOTS, DRIVEWAYS, SIDEWALKS AND PATHS SHALL BE AS DETAILED ON THE PLANS. UNLESS OTHERWISE SHOWN ON THE PLANS, THE FLEXIBLE PAVEMENTS SHALL CONSIST OF AGGREGATE BASE COURSE, TYPE B; BITUMINOUS CONCRETE BINDER COURSE; AND BITUMINOUS CONCRETE SURFACE COURSE; OF THE THICKNESS AND MATERIALS SPECIFIED ON THE PLANS. THICKNESSES SPECIFIED SHALL BE CONSIDERED TO BE THE MINIMUM COMPACTED THICKNESS. THE PAVING IS TO BE DONE IN ACCORD WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS.

B. ALL TRAFFIC SHALL BE KEPT OFF THE COMPLETED AGGREGATE BASE UNTIL THE BINDER COURSE IS LAID. THE AGGREGATE BASE SHALL BE UNIFORMLY PRIME COATED AT A RATE OF 0.4 TO 0.5 GALLONS PER SQUARE YARD PRIOR TO PLACING THE BINDER COURSE. PRIME COAT MATERIALS SHALL BE BITUMINOUS M.C. - 30.

C. PRIOR TO PLACEMENT OF THE SURFACE COURSE, THE BINDER COURSE SHALL BE CLEANED, AND TACK COATED IF DUSTY OR DIRTY. ALL DAMAGED AREAS IN THE BINDER, BASE OR CURB SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER PRIOR TO LAYING THE SURFACE COURSE. THE CONTRACTOR SHALL PROVIDE WHATEVER EQUIPMENT AND MANPOWER NECESSARY, INCLUDING THE USE OF POWER BROOMS IF REQUIRED BY THE OWNER, TO PREPARE THE PAVEMENT FOR APPLICATION OF THE SURFACE COURSE. THE TACK COAT SHALL BE UNIFORMLY APPLIED TO THE BINDER COURSE AT A RATE OF 0.05 TO 0.10 GALLONS PER SQUARE YARD. TACK COAT SHALL BE AS SPECIFIED IN (SSRBC) SECTION 406.02.

D. SEAMS IN BASE, BINDER AND SURFACE COURSE SHALL BE STAGGERED A MINIMUM OF 6".

E. FOR NEW STREETS, THE CONTRACTOR SHALL PERMIT THE BITUMINOUS CONCRETE BINDER COURSE TO WEATHER ONE (1) WINTER SEASON PRIOR TO THE INSTALLATION OF THE BITUMINOUS CONCRETE SURFACE COURSE UNLESS OTHERWISE SPECIFIED BY THE MUNICIPAL ENGINEER OR OWNER.

5. TESTING AND FINAL ACCEPTANCE

A. THE CONTRACTOR SHALL FOLLOW THE QUALITY CONTROL TESTING PROGRAM FOR CONCRETE AND PAVEMENT MATERIALS ESTABLISHED BY THE OWNER AND/OR MUNICIPALITY. TESTING SHALL BE DONE IN ACCORD WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS AND THE TESTING REQUIREMENTS OF THE MUNICIPALITY.

B. WHEN REQUESTED BY THE OWNER, TEST RESULTS AND DOCUMENTATION FOR THE CONCRETE, BASE COURSE, BITUMINOUS CONCRETE BINDER, AND/OR SURFACE COURSE, SHALL BE SUBMITTED FOR VERIFICATION.

C. PRIOR TO PLACEMENT OF THE BITUMINOUS CONCRETE SURFACE COURSE, THE CONTRACTOR, WHEN REQUIRED BY THE OWNER OR MUNICIPALITY, SHALL OBTAIN SPECIMENS OF THE BINDER COURSE WITH A CORE DRILL WHERE DIRECTED, FOR THE PURPOSE OF THICKNESS VERIFICATION.

D. WHEN REQUIRED BY THE OWNER OR MUNICIPALITY, THE CONTRACTOR SHALL OBTAIN SPECIMENS OF THE FULL DEPTH BITUMINOUS CONCRETE PAVEMENT STRUCTURE WITH A CORE DRILL WHERE DIRECTED, IN ORDER TO CONFIRM THE PLAN THICKNESS. DEFICIENCIES IN THICKNESS SHALL BE ADJUSTED FOR BY THE METHOD DESCRIBED IN (SSRBC), ART. 407.10.

E. FINAL ACCEPTANCE OF THE TOTAL PAVEMENT INSTALLATION SHALL BE SUBJECT TO THE TESTING AND CHECKING REQUIREMENTS CITED ABOVE.

SANITARY SEWER NOTES

1. GENERAL

A. SANITARY SEWER PIPE SHALL BE PVC (POLYVINYL CHLORIDE) PLASTIC PIPE WITH A STANDARD DIMENSION RATIO (SDR) OF 26 CONFORMING TO ASTM D-3034 WITH PUSH-ON JOINTS CONFORMING TO ASTM D-3212 AND PVC (POLYVINYL CHLORIDE) PLASTIC PIPE WITH A STANDARD DIMENSION RATIO (SDR) OF 21 CONFORMING TO ASTM D-2241 WITH PUSH-ON JOINTS CONFORMING TO ASTM D-3139 AS SHOWN ON THE PLANS. PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE PER LINEAL FOOT OF SANITARY SEWER COMPLETE IN PLACE.

B. SANITARY SEWER PIPE 18" AND LARGER, WHERE NOTED ON THE PLANS, OR WHERE THE IEPA MINIMUM SEPARATION CANNOT BE MAINTAINED, SHALL BE ONE OF THE FOLLOWING:

PLAN CODE DESCRIPTION

DIP: DUCTILE IRON WATERMAIN QUALITY PIPE, CLASS 52, (ANSI A-21.51) WITH MECHANICAL OR O-RING GASKETED JOINTS (ANSI A-21.11).

PVC: PRESSURE RATED PVC PIPE MEETING ASTM D-2241 WITH ASTM D-3139 GASKETED JOINT, SDR 26

C. "BAND-SEAL" OR SIMILAR FLEXIBLE TYPE COUPLINGS SHALL BE USED WHEN CONNECTING SEWER PIPES OF DISSIMILAR MATERIALS. "BAND-SEAL", "FERNCO", AND "MISSION" TYPE COUPLINGS SHALL NOT BE USED ON ANY SEWER MAIN.

D. ALL SANITARY SEWERS ARE TO BE CONSTRUCTED USING A LASER INSTRUMENT TO MAINTAIN LINE AND GRADE.

E. ALL FLOOR DRAINS SHALL CONNECT TO THE SANITARY SEWER.

F. CONNECTIONS TO EXISTING SANITARY SEWER SYSTEM SHALL NOT BE DONE UNTIL AUTHORIZED BY THE MUNICIPALITY.

G. WATERMAINS SHALL BE SEPARATED FROM SANITARY SEWERS AND STORM SEWERS IN ACCORDANCE WITH IEPA REQUIREMENTS AS SPECIFIED IN "WATER MAIN" SECTION.

H. NO WATER LINE SHALL BE PLACED IN THE SAME TRENCH AS A SEWER LINE EXCEPT UNDER SPECIAL CIRCUMSTANCES AND THEN ONLY UNDER THE FOLLOWING RULES:

a) PERMISSION SHALL BE OBTAINED FROM THE MUNICIPAL ENGINEERING DEPARTMENT IN WRITING PRIOR TO BEGINNING CONSTRUCTION.
b) THE BOTTOM OF A WATER LINE SHALL BE INSTALLED ON A SHELF A MINIMUM OF 18" ABOVE THE TOP OF THE SEWER AND 18" HORIZONTALLY AWAY FROM THE EDGE OF THE SEWER.

2. BEDDING:

A. BEDDING SHALL CONSIST OF A MINIMUM OF FOUR (4") INCHES OF COMPACTED CRUSHED GRAVEL OR STONE, 1/4 " -3/4 " IN SIZE. THE SEWER SHALL HAVE MECHANICALLY TAMPED CRUSHED GRAVEL OR STONE COVER ABOVE THE TOP OF THE PIPE TO A MINIMUM OF TWELVE (12") INCHES FOR PVC PIPE AND TO THE SPRING LINE FOR DIP. THE BEDDING AND COVER MATERIAL SHALL BE ASTM D-2321 CLASS II FOR PVC PIPE AND ASTM D-448 SIZE 67 FOR DIP PIPE. THE COST OF THE BEDDING AND COVER SHALL BE MERGED WITH THE UNIT PRICE BID FOR THE SEWER.

B. ALL UNSUITABLE MATERIAL SHALL BE REMOVED BELOW THE PROPOSED SANITARY SEWER AND REPLACED WITH COMPACTED CA-6 CRUSHED GRAVEL OR STONE.

C. ALL TRENCHES BENEATH PROPOSED OR EXISTING UTILITIES, PAVEMENTS, ROADWAYS, SIDEWALKS, AND FOR A DISTANCE OF FIVE (5') FEET ON EITHER SIDE OF SAME, AND/OR WHERE SHOWN ON THE PLANS, SHALL BE BACKFILLED WITH SELECT GRANULAR BACKFILL (CA-6) AND THOROUGHLY MECHANICALLY COMPACTED IN 9" THICK (LOOSE MEASUREMENT) LAYERS. JETTING WITH WATER IS NOT PERMITTED. REFER TO THE TRENCH BACKFILL LIMITS DETAIL.

3. MANHOLES:

A. SANITARY SEWER MANHOLES SHALL BE 4'-0" I.D. PRECAST CONCRETE SECTIONS CONFORMING TO ASTM D-478 WITH PREFORMED BITUMINOUS OR "O" RING JOINTS, IN ACCORDANCE WITH MUNICIPAL REGULATIONS, AND HAVE AN ECCENTRIC CONE INSTALLED TO LINE UP WITH THE MANHOLE STEPS. ALL MANHOLE STEPS SHALL BE AT 16" O.C. SIMILAR TO NEENAH R-1910.

B. ALL PIPE CONNECTION OPENINGS SHALL BE PRECAST WITH RESILIENT RUBBER WATER TIGHT SLEEVES. THE BOTTOM OF MANHOLE SHALL HAVE A CONCRETE BENCH POURED TO FACILITATE SMOOTH FLOWS.

4. FRAMES AND LIDS:

A. ALL SANITARY SEWER MANHOLE FRAMES AND LIDS SHALL BE NEENAH R-1712 UNLESS OTHERWISE NOTED ON THE PLANS. THE LIDS SHALL HAVE RECESSED (CONCEALED) PICK HOLE AND BE SELF SEALING WITH AN "O" RING GASKET. THE LIDS SHALL HAVE THE WORDS "SANITARY" EMBOSSED ON THE SURFACE. THE JOINTS BETWEEN FRAME AND CONCRETE SECTION SHALL BE SEALED WITH A BUTYL ROPE.

B. A MAXIMUM OF EIGHT (8) INCHES OF CONCRETE ADJUSTING RINGS SHALL BE USED TO ADJUST FRAME ELEVATIONS. RINGS SHALL BE SEALED TOGETHER WITH BUTYL ROPE.

5. DROP MANHOLE ASSEMBLIES:

A. DROP MANHOLE ASSEMBLIES; DROP MANHOLE ASSEMBLIES SHALL BE PROVIDED AT THE JUNCTION OF SANITARY SEWERS WHERE THE DIFFERENCE IN INVERT GRADES EXCEEDS TWO FEET (2'), OR AS SHOWN ON THE PLANS. THE ENTIRE DROP ASSEMBLY SHALL BE CAST IN CONCRETE MONOLITHICALLY WITH THE MANHOLE BARREL SECTION.

6. CLEANING:

A. ALL MANHOLES AND PIPES SHALL BE THOROUGHLY CLEANED OF DIRT AND DEBRIS, AND ALL VISIBLE LEAKAGE ELIMINATED, BEFORE FINAL INSPECTION AND ACCEPTANCE.

7. TESTING:

A. DEFLECTION AND LEAKAGE TESTING WILL BE REQUIRED. THE PROCEDURE AND ALLOWABLE TESTING LIMITS SHALL BE AS SPECIFIED IN THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", OR MUNICIPAL CODES. IN THE EVENT OF A DISCREPANCY BETWEEN THE STANDARD SPECIFICATIONS AND THE MUNICIPAL CODE, THE MUNICIPAL CODE SHALL GOVERN. THE FULL LENGTH OF THE SANITARY SEWER IS REQUIRED TO BE BOTH AIR TESTED AND DEFLECTION TESTED.

B. TESTING THE ALIGNMENT/STRAIGHTNESS SHALL BE IN ACCORDANCE WITH MUNICIPAL CODE.

C. TESTING OF MANHOLES TO BE IN ACCORDANCE WITH ASTM C-969.

8. TELEVISING:

A. ALL SANITARY SEWERS SHALL BE TELEVISED AND A COPY OF THE TAPE /DVD AND A WRITTEN REPORT SHALL BE SUBMITTED AND REVIEWED BY THE OWNER OR MUNICIPALITY BEFORE FINAL ACCEPTANCE. THE REPORT SHALL INCLUDE STUB LOCATION AS WELL AS A DESCRIPTION OF ALL DEFECTS, WATER LEVEL, LEAKS AND LENGTHS. IDENTIFY MANHOLE TO MANHOLE BOTH VERBALLY AND ON-SCREEN USING MANHOLE NUMBERS FROM APPROVED PLANS. ORDER OF WRITTEN REPORT SHALL BE THE SAME AS THE VIDEO TAPES/DVDS.

9. TEST RESULTS:

A. IF THE SANITARY SEWER INSTALLATION FAILS TO MEET THE TEST REQUIREMENTS SPECIFIED, THE CONTRACTOR SHALL DETERMINE THE CAUSE OR CAUSES OF THE DEFECT AND SHALL, AT HIS OWN EXPENSE, REPAIR OR REPLACE ALL MATERIALS, AND WORKMANSHIP AS MAY BE NECESSARY TO COMPLY WITH THE TEST REQUIREMENTS.

10. CERTIFICATION:

A. CONTRACTOR SHALL SUBMIT CERTIFIED COPIES OF ALL REPORTS OF TESTS CONDUCTED BY AN INDEPENDENT LABORATORY BEFORE INSTALLATION OF PVC PLASTIC PIPE. TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH STANDARD METHOD OF TEST FOR "EXTERNAL LOADING PROPERTIES OF PLASTIC PIPE BY PARALLEL PLATE LOADING", ASTM STANDARDS D-2412 OR D-2241 AS APPROPRIATE FOR THE PIPE TO BE USED. TESTS SHALL ALSO BE CONDUCTED TO DEMONSTRATE JOINT PERFORMANCE AT 5% MAXIMUM DIAMETRIC DEFLECTION OF THE SPIGOT.

11. RECORD DRAWINGS:

A. THE CONTRACTOR SHALL PROVIDE ALL INFORMATION TO PREPARE RECORD DRAWING(S) INCLUDING SERVICE STUB LOCATIONS, TO SPACECO. SPACECO SHALL PREPARE RECORD DRAWINGS AND SUBMIT TO APPROPRIATE PUBLIC AGENCIES. IF FINAL MEASUREMENTS INDICATE DEFICIENCIES, THE CONTRACTOR, AT HIS OWN COST, WILL ADJUST MANHOLES AND/OR SEWERS TO PROPER ELEVATIONS AND OTHERWISE CORRECT THE DEFICIENCIES.

STORM SEWER NOTES

1. GENERAL:

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

PLAN CODE: MATERIAL
RCP: REINFORCED CONCRETE PIPE (ASTM C-76) WITH O-RING GASKETED JOINTS, (ASTM C-443); TYPE 1, CLASS IV, PER SSRBC SECTION 603, ELLIPTICAL RCCP PIPE SHALL BE TYPE 1, HE-III PER SSRBC SECTION 511, PRECAST FLARED END SECTIONS MAY HAVE MASTIC JOINTS, PAYMENTS SHALL BE MADE AT THE CONTRACT UNIT PRICE PER LINEAR FOOT OF STORM SEWER COMPLETE IN PLACE.

DIP: DUCTILE IRON WATERMAIN QUALITY PIPE CLASS 52 (ANSI 21.51) WITH MECHANICAL OR PUSH-ON JOINTS (ANSI 21.11). CEMENT LINING IS NOT REQUIRED.

PVC: POLYVINYL CHLORIDE SEWER PIPE, SDR 26, CONFORMING TO ASTM D-3034 WITH ASTM D-3212 PUSH-ON GASKETED JOINTS.

HDPE: HIGH DENSITY POLYETHYLENE CORRUGATED PIPE WITH SMOOTH INTERIOR MEETING AASHTO M-294 SUCH AS ADS N-12 BY ADVANCED DRAINAGE SYSTEM, COLUMBUS, OH; OR HI-Q BY HANCOR, FINDLEY, OH. JOINTS SHALL BE SPLIT CORRUGATED BANDS BY THE PIPE MANUFACTURER.

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

B. "BAND SEAL" OR SIMILAR COUPLINGS SHALL BE USED WHEN JOINING SEWER PIPES OF DISSIMILAR MATERIALS. "BAND SEAL", "FERNCO", AND "MISSION" TYPE COUPLINGS SHALL NOT BE USED ON SEWER MAINS. CHANGES IN PIPE MATERIAL SHALL BE MADE AT A STRUCTURE.

C. ALL STORM SEWERS ARE TO BE CONSTRUCTED USING A LASER INSTRUMENT TO MAINTAIN LINE AND GRADE.

D. ALL FOOTING DRAIN AND SUMP PUMP DISCHARGE PIPES SHALL BE CONNECTED TO THE STORM SEWER SYSTEM. DOWNSPOUTS SHALL DISCHARGE TO THE GROUND.

E. THE CONTRACTOR SHALL MAINTAIN AT LEAST THREE (3') FEET OF COVER OVER THE TOP OF SHALLOW PIPES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL MOUND OVER ANY PIPES WHICH HAVE LESS THAN THREE (3') FEET OF COVER DURING CONSTRUCTION UNTIL THE AREA IS FINAL GRADED OR PAVED.

STORM SEWER NOTES

2. BEDDING:

A. ALL STORM SEWERS SHALL BE INSTALLED ON A TYPE A GRANULAR BEDDING, 1/4" TO 3/4" IN SIZE (CA-13) WITH A MINIMUM THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE BUT NOT LESS THAN 4". BLOCKING OF ANY KIND FOR GRADE IS NOT PERMITTED. THE BEDDING MATERIALS SHALL BE COMPACTED TO 90% OF MODIFIED PROCTOR DENSITY. BEDDING SHALL EXTEND TO THE SPRINGLINE ON ALL RCP AND DIP PIPE. BEDDING SHALL EXTEND TO 12" OVER ANY PVC OR HDPE PIPE. COST OF BEDDING SHALL BE CONSIDERED INCIDENTAL TO THE COST OF PIPE. NO SEPERATE PAYMENT SHALL BE MADE FOR THIS.

3. STRUCTURES:

A. MANHOLE, CATCH BASIN AND INLET BOTTOMS SHALL BE PRECAST CONCRETE SECTIONAL UNITS OR MONOLITHIC CONCRETE. MANHOLES AND CATCH BASINS SHALL BE A MINIMUM 4' IN DIAMETER UNLESS OTHERWISE SPECIFIED ON THE PLANS. STRUCTURE JOINTS SHALL BE SEALED WITH O-RING OR BUTYL ROPE. A MAXIMUM OF EIGHT (8") INCHES OF ADJUSTING RINGS SHALL BE USED.

B. A CONCRETE BENCH TO DIRECT FLOWS SHALL BE CONSTRUCTED IN THE BOTTOM OF ALL INLETS AND MANHOLES.

C. THE FRAME, GRATE, AND/OR CLOSED LID SHALL BE CAST IRON OF THE STYLE SHOWN ON THE PLANS.

D. MANHOLE LIDS SHALL BE MACHINE SURFACED, NON-ROCKING DESIGN. THE CLOSED LIDS SHALL HAVE THE WORD "STORM" CAST ON THE LID. THE JOINTS BETWEEN CONCRETE SECTION ADJUSTING RINGS. AND FRAME SHALL BE SEALED WITH A MASTIC COMPOUND.

4. FRENCH DRAIN:

A. ALL LOW POINT STORM STRUCTURES ARE TO HAVE FOUR 1" DIAMETER WEEP HOLES PROVIDED 24" BELOW THE TOP OF LID. THE HOLES SHALL BE COVERED WITH A GEOTEXTILE FILTER FABRIC CEMENTED IN PLACE WITH BITUMINOUS MASTIC. THE DRAIN SHALL BE BACKFILLED WITH BEDDING OR CA-7 CRUSHED STONE TO TOP OF SUBGRADE OR BOTTOM OF TOPSOIL.

5. CASTINGS:

A. CASTINGS FOR SEWER OR OTHER STRUCTURES SHALL BE "NEENAH" OR APPROVED EQUAL. COST OF CASTINGS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE STRUCTURE. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS ITEM.

6. CLEANING:

A. THE STORM SEWER SYSTEM SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL INSPECTION AND TESTING.

7. TELEVISING:

A. THE STORM SEWER SYSTEM SHALL BE TELEVISED IF REQUIRED BY MUNICIPALITY.

WATERMAIN NOTES

1. PIPE MATERIALS:

A. WATERMAINS OR SERVICES 3" OR LARGER IN DIAMETER SHALL BE CONSTRUCTED OF BITUMINOUS COATED, CEMENT LINED DUCTILE IRON PIPE, CLASS 52, CONFORMING TO ANSI A-21.50 (AWWA C150) AND ANSI A-21.51 (AWWA C151). CEMENT MORTAR LINING SHALL CONFORM TO ANSI A-21.4 (AWWA C-104). THE JOINTS SHALL BE O-RING GASKETED PUSH-ON OR MECHANICAL JOINTS CONFORMING TO ANSI A-21.11 (AWWA C-111).

2. FITTINGS:

A. ALL FITTINGS SHALL BE CAST-IRON, WITH MECHANICAL JOINTS AND "MEGALUG" RETAINER GLANDS, AND CEMENT LINED PER ANSI A21.4. COST OF FITTINGS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PIPE.

B. ALL DUCTILE IRON WATERMAIN AND FITTINGS SHALL BE WRAPPED WITH MACWRAP (MINIMUM 9" WIDE) OR EQUAL. ALL MECHANICAL JOINT FITTINGS SHALL USE STAINLESS STEEL NUTS AND BOLTS. PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE PER LINEAL FOOT OF WATERMAIN COMPLETE IN PLACE.

3. WATER SERVICES:

A. WATER SERVICE PIPE, 2" IN DIAMETER OR SMALLER, SHALL BE TYPE K COPPER WATER TUBING, CONFORMING TO ASTM B-88 AND B-251, WITH COMPRESSION OR FLARED JOINTS.

4. VALVES:

A. GATE VALVES SHALL BE USED ON ALL WATERMAIN 3" AND LARGER. ALL VALVES SHALL TURN COUNTER-CLOCKWISE TO OPEN. VALVES SHALL BE IRON BODY RESILIENT WEDGE GATE VALVES WITH BRONZE MOUNTED SEATS AND NON-RISING STEMS CONFORMING TO AWWA C-509. THE VALVES SHALL HAVE MECHANICAL JOINTS.

B. THE MECHANICAL JOINTS AND ALL FASTENERS ON THE VALVE BODY SHALL HAVE STAINLESS STEEL NUTS AND BOLTS.

5. VALVE VAULTS:

A. VALVE VAULTS SHALL BE PRECAST CONCRETE STRUCTURES AS NOTED ON THE PLANS. THE FRAME AND COVER SHALL BE EAST JORDAN #1050Z1 EMBOSSED WITH 1025A HD "WATER" AND "VILLAGE OF ROMEOVILLE."

B. ALL VALVE VAULTS SHALL BE A MINIMUM OF 5' DIAMETER.

6. FIRE HYDRANTS:

A. FIRE HYDRANTS SHALL BE EAST JORDAN WATER MASTER 5BR250, WITH 6" PLAIN-END SHOE WITH ATTACHED 6" RESILIENT WEDGE MECHANICAL JOINT VALVE, AND MUST INCLUDE STORZ PUMPER CONNECTION ALONG WITH TWO 2-1/2" HOSE CONNECTIONS. VALVES MUST BE AMERICAN FLOW OR EAST JORDAN (FLOWMASTER). ALL SIZES SHOULD BE RESILIENT-SEATED GATE VALVES.

B. PROVIDE THE RODS FROM THE MAINLINE TEE TO THE AUXILIARY VALVE, AND BETWEEN THE AUXILIARY VALVE AND HYDRANT BARREL WHERE NOT BOLTED TOGETHER.

C. THE BREAK FLANGE AND ALL BELOW GRADE FITTINGS SHALL HAVE STAINLESS STEEL NUTS AND BOLTS.

7. CORPORATION STOPS:

A. CORPORATION STOPS SHALL BE BRONZE BODY KEY STOPS CONFORMING TO AWWA C-800, AND SHALL INCLUDE "J" BEND, TAIL PIECE, AND COMPRESSION FITTINGS. SIZE AND LOCATION AS SHOWN ON PLANS.

B. TAPPING SADDLES SPECIFICALLY DESIGNED FOR USE WITH PVC PIPE SHALL BE IN CONJUCTION WITH THE CORPORATION STOP.

8. SERVICE BOX:

A. PROVIDE CURB VALVE AND CURB BOX AS INDICATED ON THE PLANS. BOX SHALL BE EXTENSION TYPE WITH FOOT PIECE AND STATIONARY RODS FOR SIX (6') FEET OF BURY.

B. MAXIMUM DEFLECTION AT PIPE JOINTS SHALL BE IN ACCORDANCE WITH PIPE MANUFACTURER'S CURRENT RECOMMENDATIONS AND AWWA SPECIFICATIONS.

9. BEDDING:

A. ALL DUCTILE IRON WATERMAIN SHALL HAVE COARSE SAND BEDDING EXTENDED TO AT LEAST SIX INCHES (6") ABOVE THE TOP OF THE PIPE. COST OF BEDDING SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THIS PIPE. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS ITEM.

B. GRANULAR BEDDING MATERIAL OR GRANULAR BACKFILL MATERIAL SHALL BE CAREFULLY PLACED TO 12" OVER THE TOP OF THE PIPE BEFORE FINAL BACKFILLING AND COMPACTION.

C. A MINIMUM DEPTH OF COVER OF 5'-6" SHALL BE MAINTAINED OVER THE WATER LINES. THE MAXIMUM COVER SHALL BE EIGHT (8') FEET EXCEPT AT SPECIAL CROSSINGS.

D. CONCRETE THRUST BLOCKING SHALL BE INSTALLED ON WATERMAIN AT ALL BENDS, TEE, ELBOWS, ETC.

10. IEPA WATERMAIN PROTECTION:

A. HORIZONTAL SEPARATION

a) WATERMAINS SHALL BE LAID AT LEAST TEN FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER OR SEWER SERVICES CONNECTION.
b) WATERMAINS MAY BE LAID CLOSER THAN TEN FEET TO A SEWER LINE WHEN:
1) LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN FEET;
2) THE WATERMAIN INVERT IS AT LEAST 18 INCHES ABOVE THE CROWN OF THE SEWER; AND
3) THE WATERMAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER.
c) BOTH THE WATERMAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED WITH PIPE EQUIVALENT TO WATERMAIN STANDARDS OF CONSTRUCTION WHEN IT IS IMPOSSIBLE TO MEET (a) OR (b) ABOVE. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING.

B. VERTICAL SEPARATION

a) A WATERMAIN SHALL BE LAID SO THAT ITS INVERT IS 18 INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATERMAINS CROSS STORM SEWERS, SANITARY SEWERS OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATERMAIN LOCATED WITHIN TEN FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATERMAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANCE FROM THE SEWER OR DRAIN.
b) BOTH THE WATERMAINS AND SEWER SHALL BE CONSTRUCTED WITH PIPE EQUIVALENT TO WATERMAIN STANDARDS OF CONSTRUCTION WHEN:
1) IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN (a) ABOVE; OR
2) THE WATERMAIN PASSES UNDER A SEWER OR DRAIN.
c) A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATERMAIN SHALL BE MAINTAINED WHERE A WATERMAIN CROSSES UNDER SEWER. SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTLING AND BREAKING THE WATER MAIN.
d) CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE NORMAL DISTANCE FORM THE WATERMAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN FEET.

11. TESTING:

A. ALL WATERMAINS SHALL BE PRESSURE TESTED, FLUSHED AND DISINFECTED IN ACCORDANCE WITH AWWA AND MUNICIPAL SPECIFICATIONS. EACH VALVE SECTION SHALL BE PRESSURE TESTED FOR A MINIMUM OF 4 HOURS. ALLOWABLE LEAKAGE IS TO BE ONLY THAT WHICH IS PREDETERMINED BY THE STANDARD SPECIFICATIONS FOR SEWER AND WATERMAIN CONSTRUCTION IN ILLINOIS. AT NO TIME IS THERE TO BE ANY VISIBLE LEAKAGE FROM THE MAIN.

B. CONTRACTOR IS RESPONSIBLE FOR PRESSURE TESTING AGAINST EXISTING WATER VALVES.

NO.	DATE	REMARKS

NO.	DATE	REMARKS
2	05/09/22	PER VILLAGE OF ROMEOVILLE
1	04/08/22	PER VILLAGE OF ROMEOVILLE

SPECIFICATIONS

JIMMY JOHN'S
310 NORTH INDEPENDENCE BLVD
ROMEOVILLE, ILLINOIS

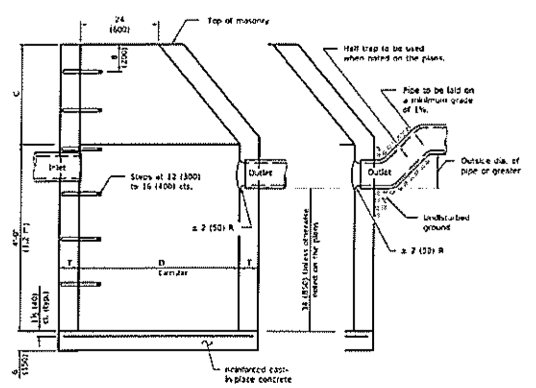
CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS
9575 W. Higgins Road, Suite 700, Rosemont, Illinois 60018
Phone: (847) 696-4060 Fax: (847) 696-4065
SPACECO INC.

FILENAME: 10291SP1

DATE: 02/25/22

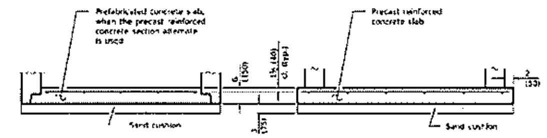
JOB NO. 10291

SHEET
SP1
11 OF 13



ELEVATION (Standard (Outlet))

ELEVATION (Half Trap)



ALTERNATE BOTTOM SLAB

ALTERNATE MATERIALS FOR WALLS	D	C*	T (min.)
Concrete Masonry Unit	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	5 (125) 5 (125)
Brick Masonry	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	8 (200) 8 (200)
Precast Reinforced Concrete Section	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	4 (100) 5 (125)
Cast-in-place Concrete	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	6 (150) 6 (150)

* For precast reinforced concrete sections, dimension "C" may vary from the dimension given to plus 6 (150).

GENERAL NOTES

Bottom slabs shall be reinforced with a minimum of 0.20 sq. in/ft (420 sq. mm/m) in both directions with a maximum spacing of 12 (300).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

See Standard 602601 for optional precast reinforced concrete flat slab top.

See Standard 602701 for details of steps.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-11	Added 'Outside' to half trap note. Detail rein. in slabs. Revised general notes.
1-1-03	Switched units to English (metric).

Illinois Department of Transportation
PASSED January 1, 2011
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

CATCH BASIN TYPE A

STANDARD 602001-02

Hydro International

First Defense®

Cost-effective stormwater treatment with adaptability to meet demanding site requirements

Product Profile

The First Defense® is an enhanced vortex separator that combines an effective and economical stormwater treatment chamber with an integral peak flow bypass. It efficiently removes sediment total suspended solids (TSS), trash and hydrocarbons from stormwater runoff without washing out previously captured pollutants. The First Defense® is available in several model configurations to accommodate a wide range of pipe sizes, peak flows and depth constraints (Table 1, next page).

Components

1. Inlet Grate (optional)
2. Inlet Chute
3. Inlet Pipe (optional)
4. Floatables Draw Off Slot (not pictured)
5. Precast Vortex Chamber
6. Internal Bypass
7. Outlet Chute
8. Outlet Pipe
9. Oil and Floatables Storage
10. Sediment Storage Sump

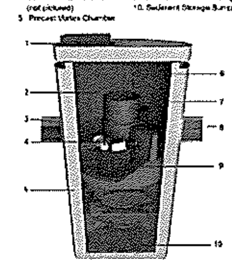


Fig.1 The First Defense® has internal components designed to efficiently capture pollutants and prevent washout at peak flows.

Applications

- Stormwater treatment at the point of entry into the drainage line
- Sites constrained by space, topography or drainage profiles with limited slope and depth of cover
- Retrofit installations where stormwater treatment is placed on or tied into an existing storm drain line
- Pretreatment for filters, infiltration and storage

Advantages

- Inlet options include surface grate or multiple inlet pipes
- Integral high capacity bypass conveys large peak flows without the need for "offline" arrangements using separate junction manholes
- Proven to prevent pollutant washout at up to 500% of its treatment flow
- Long flow path through the device ensures a long residence time within the treatment chamber, enhancing pollutant settling
- Delivered to site pre-assembled and ready for installation

How it Works

The First Defense® has internal components designed to remove and retain gross debris, total suspended solids (TSS) and hydrocarbons (Fig.1).

Contaminated stormwater runoff enters the inlet chute from a surface grate and/or inlet pipe. The inlet chute introduces flow into the chamber tangentially to create a low energy vortex flow regime (magenta arrow) that directs sediment into the sump while oils, floating trash and debris rise to the surface.

Treated stormwater exits through a submerged outlet chute located opposite to the direction of the rotating flow (blue arrow). Enhanced vortex separation is provided by forcing the rotating flow within the vessel to follow the longest path possible rather than directly from inlet to outlet.

Higher flows bypass the treatment chamber to prevent turbulence and washout of captured pollutants. An integral bypass conveys infrequent peak flows directly to the outlet chute, eliminating the need for, and expense of, external bypass control structures. A floatables draw off slot functions to convey floatables into the treatment chamber prior to bypass.

Stormwater Solutions
Turning Water Around...®

First Defense®

Maintenance

The First Defense® needs minimal maintenance, but like all structural best management practices maintenance is necessary for the long-term protection of the environment.

Sediments captured by the First Defense® are stored in the sump; floatable trash and hydrocarbons are stored on the surface of the standing water. A commercially or municipally owned sump-vac is used to remove captured sediment and floatables (Fig.2).

More information can be found in the First Defense® Operation and Maintenance Manual, available at http://www.hydro-int.com/us/products/first-defense.

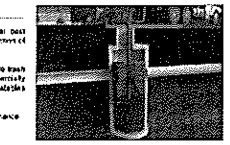


Fig.2 Maintenance is performed with a vactor truck.

First Defense® Sizing & Design

Design Options for Inlet and Internal Bypass Arrangements

For maximum flexibility the First Defense® inlet and internal bypass arrangements are available in two configurations (Fig.3a & 3b). Model parameters and design criteria are shown in Table 1.

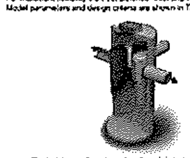


Fig.3a Inlet configurations for all models include options for inlet grates and multiple inlet pipes.

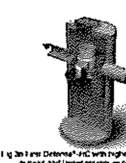


Fig.3b First Defense®-HC with higher capacity internal bypass and larger maximum pipe diameter.

Table 1. First Defense® Models and Design Criteria

First Defense® Model Number	Diameter	Typical Flow Rate for TSS Treatment		Peak Online Flow Rate	Maximum Pipe Diameter[1]	Oil Storage Capacity	Typical Sediment Storage Capacity[2]	Minimum Distance from Outlet Invert to Top of Rim[3]	Standard Distance from Outlet Invert to Sump Floor
FD-4	4/1.2	0.7/20	1.3/34	6/170	18/450	180/681	1.3/1.0	3.1/1.1	5.47/1.7
FD-4HC				18/510	24/600	191/723		2.3-3.9/0.7-1.2	
FD-6	6/1.8	2.2/63	3.4/108	18/510	24/600	420/1,590	3.3/2.5	4.0/1.2	6.52/2.0
FD-6HC				32/906	30/750	495/1,874		3.0-5.1/0.9-1.6	

[1]Contact Hydro International when larger pipe sizes are required.

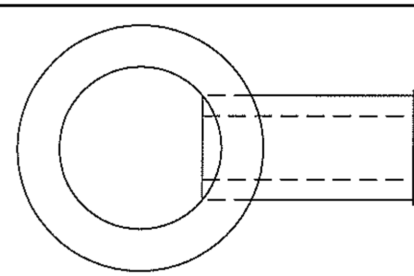
[2]Contact Hydro International when custom sediment storage capacity is required.

[3]The maximum distance for the 4HC and 6HC models depends on pipe diameter.

SELECTED UNIT

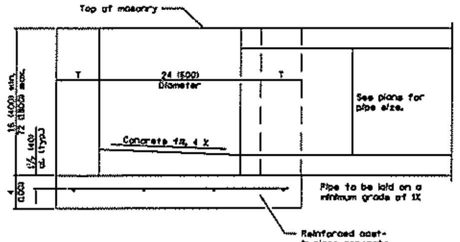
Hydro International, 94 Hutchins Drive, Portland, ME 04102
Tel: (207) 756-6200 Fax: (207) 756-6212
Email: stormwaterinquiry@hydro-int.com Web: www.hydro-int.com

Stormwater Solutions
Turning Water Around...®

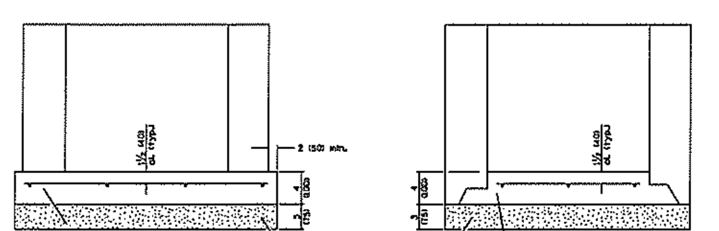


PLAN

ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	8 (200)
CAST-IN-PLACE CONCRETE	6 (150)
CONCRETE MASONRY UNIT	5 (125)
PRECAST REINFORCED CONCRETE SECTION	3 (75)



ELEVATION



ALTERNATE METHODS

GENERAL NOTES

Bottom slabs shall be reinforced with a minimum of 0.24 sq. in./ft. (510 sq. mm/m) in both directions with a maximum spacing of 10 (250).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

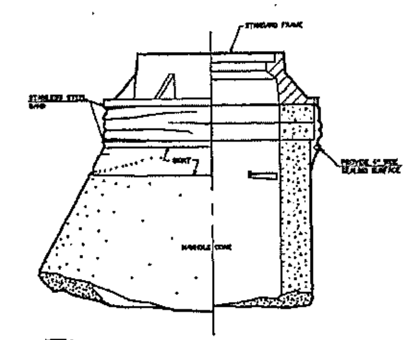
All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-14	Increased height to 72 (1800) maximum.
1-1-11	Detailed rein. in slabs. Added max. limit to height. Added general notes.

Illinois Department of Transportation
PASSED January 1, 2014
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2014
ENGINEER OF DESIGN AND ENVIRONMENT

INLET – TYPE A

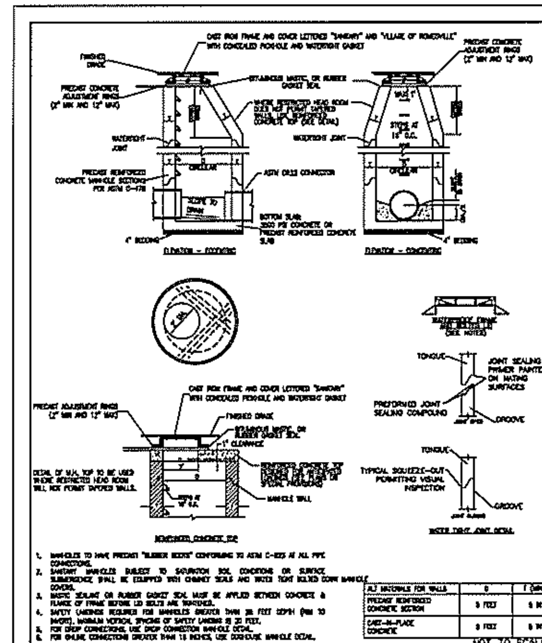
STANDARD 602301-04



NOTES:

1. CHIMNEY SEALS SHALL BE INSTALLED ON ALL SANITARY SEWERAGE SYSTEM MANHOLES AND INLINE TRAP CATCH BASINS.
2. "CRETEX" EXTERNAL, OR INTERNAL SEALS ARE RECOMMENDED. OTHER PRODUCTS OR OTHER DESIGN SOLUTIONS SHALL REQUIRE THE APPROVAL OF THE VILLAGE ENGINEER.
3. CHIMNEY SEALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

EXTERNAL CHIMNEY SEAL



NOT TO SCALE

TYPICAL SANITARY MANHOLE 'A' AND 'B' DETAIL

1	04/08/22	PER VILLAGE OF ROMEOVILLE
NO.	DATE	REMARKS

NO.	DATE	REMARKS

DETAIL 1

JIMMY JOHN'S
310 NORTH INDEPENDENCE BLVD
ROMEOVILLE, ILLINOIS

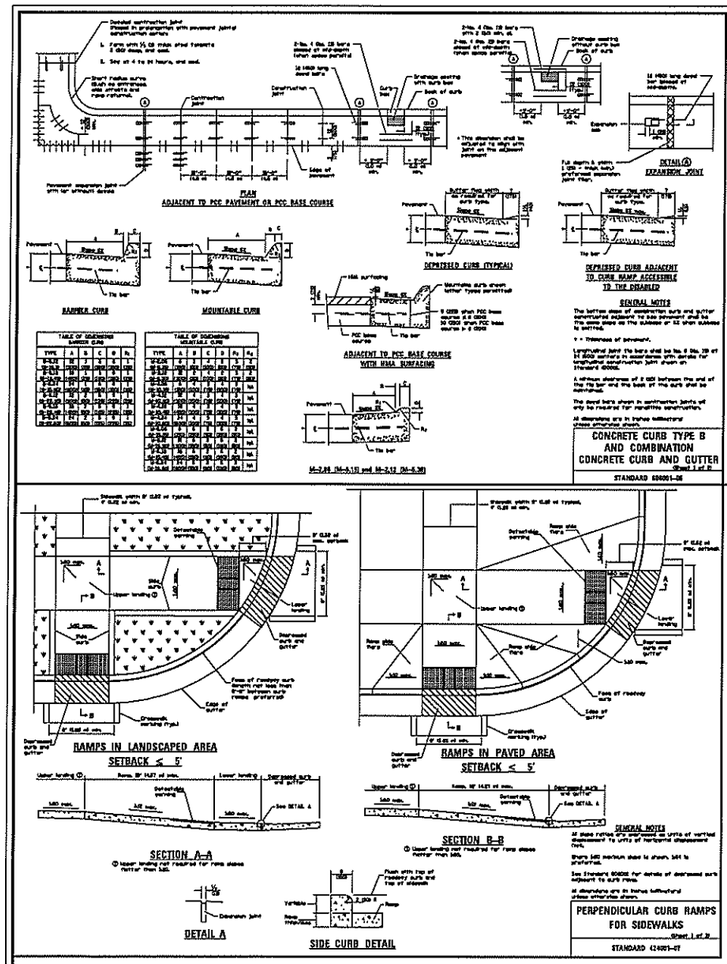
CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS
9575 W. Higgins Road, Suite 700, Rosemont, Illinois 60018
Phone: (847) 696-4060 Fax: (847) 696-4065
SPACECO INC.

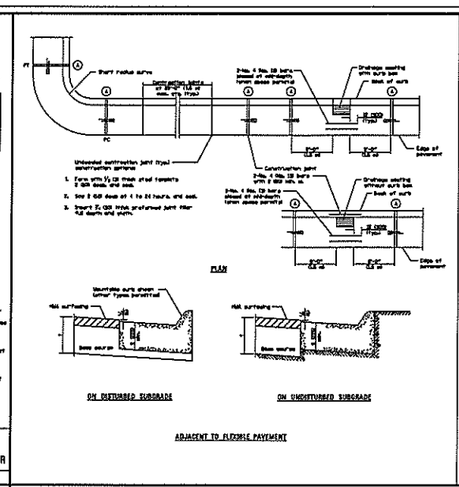
FILENAME: 10291DET

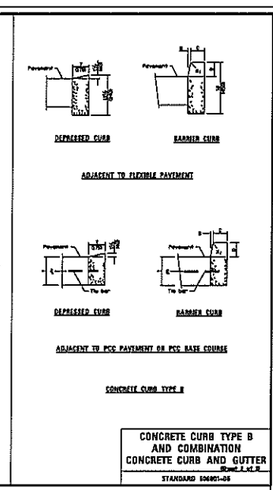
DATE: 02/25/22

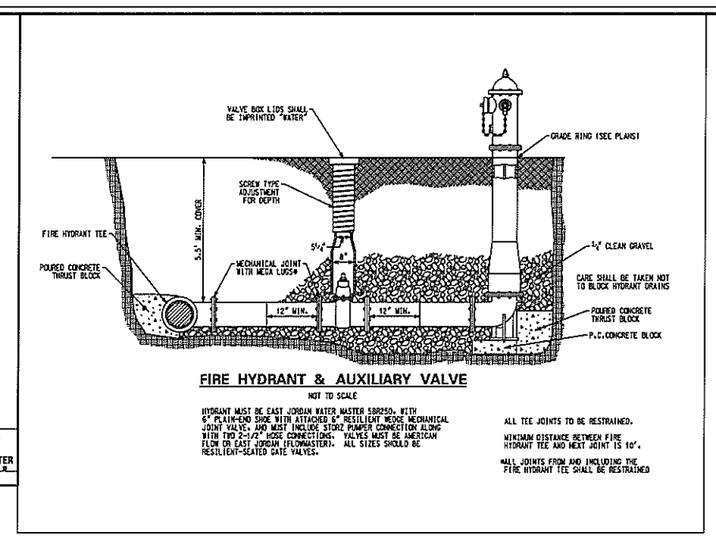
JOB NO. 10291

SHEET D1









FIRE HYDRANT & AUXILIARY VALVE

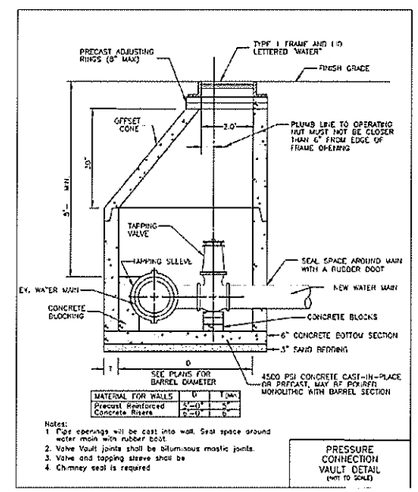
NOT TO SCALE

HYDRANT MUST BE EAST JORDAN WATER MASTER 58R250. WITH 6" PLAIN-END SHOE WITH ATTACHED 6" RESILIENT WEDGE MECHANICAL JOINT VALVE. AND MUST INCLUDE STORZ PUMPER CONNECTION ALONG WITH TWO 2-1/2" HOSE CONNECTIONS. VALVES MUST BE AMERICAN FLOW OR EAST JORDAN (FLOWMASTER). ALL SIZES SHOULD BE RESILIENT-SEATED GATE VALVES.

ALL TEE JOINTS TO BE RESTRAINED.

MINIMUM DISTANCE BETWEEN FIRE HYDRANT TEE AND NEXT JOINT IS 10'.

WALL JOINTS FROM AND INCLUDING THE FIRE HYDRANT TEE SHALL BE RESTRAINED



ACCESSIBLE PARKING SIGN
WITH $250 FINE SIGN
MUTCD R7-8, 12"x18"
IL. STD. R7-101, 12"x18"

ACESSIBLE PARKING SIGN

NO.	DATE	REMARKS
1	04/08/22	PER VILLAGE OF ROMEOVILLE

DETAIL 2

JIMMY JOHN'S
310 NORTH INDEPENDENCE BLVD
ROMEOVILLE, ILLINOIS

CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS
9575 W. Higgins Road, Suite 700,
Rosemont, Illinois 60018
Phone: (847) 696-0300 Fax: (847) 696-0455
SPACECO INC.

FILENAME: 10291DET
DATE: 02/25/22
JOB NO. 10291
SHEET D2
13 OF 13

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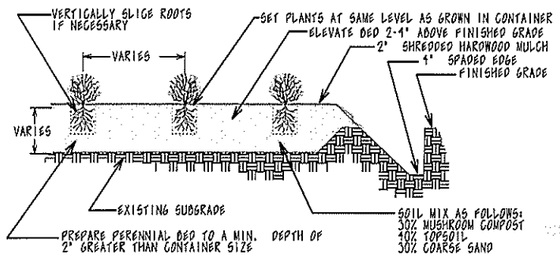
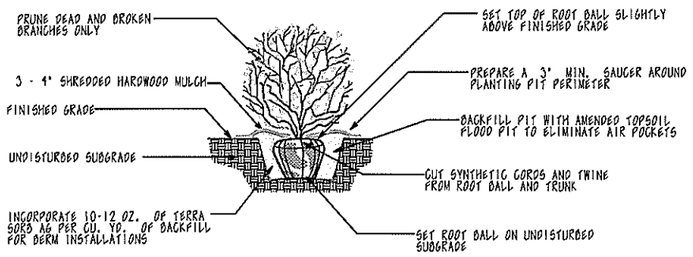


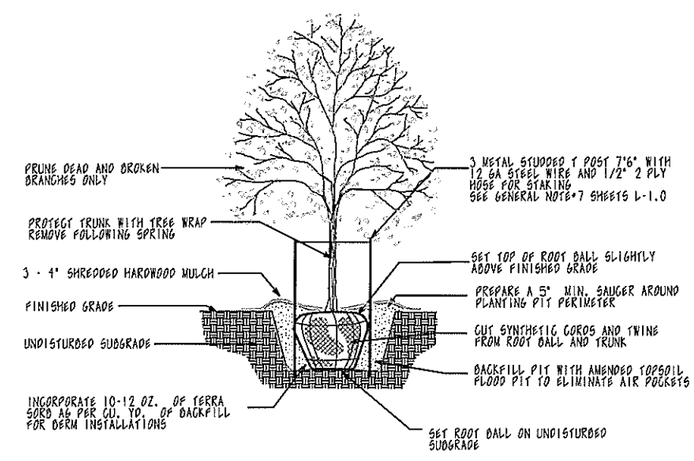
PERENNIAL PLANTING DETAIL

NOT TO SCALE USE ONLY LOCALLY GROWN NURSERY STOCK



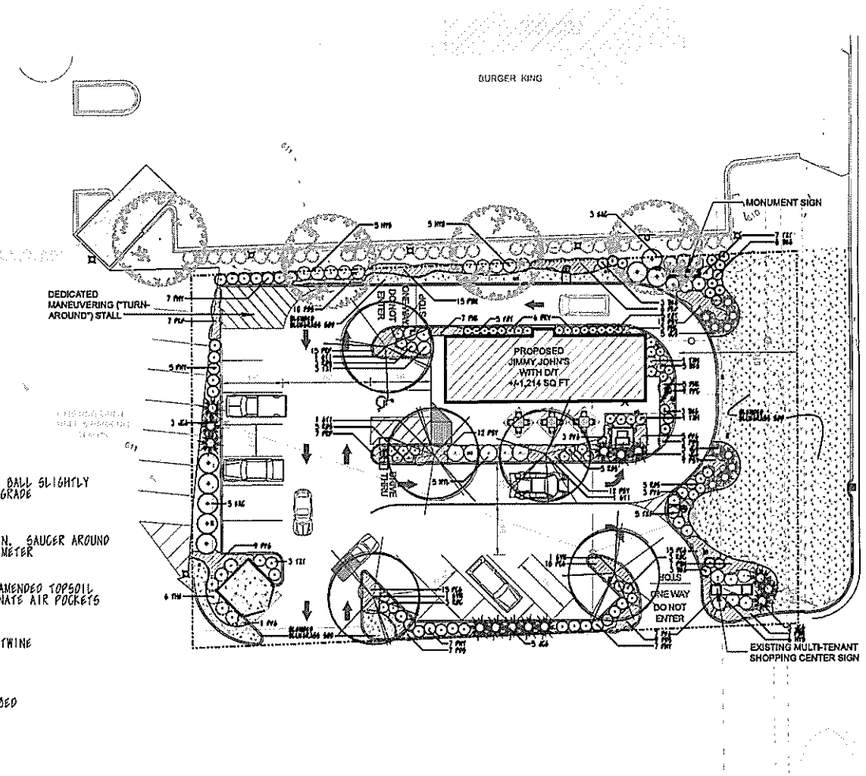
SHRUB PLANTING DETAIL

NOT TO SCALE USE ONLY LOCALLY GROWN NURSERY STOCK



TREE PLANTING DETAIL

NOT TO SCALE USE ONLY LOCALLY GROWN NURSERY STOCK



PLANT LIST

QTY	CODE	PLANT NAME		SIZE
3	GTI	GLEDITSIA TRIACANTHOS	SKYLINE HONEYLOCUST	2.5" CAL
2	GYM	GYMNOCLADUS SPECIES	KENTUCKY COFFEE TREE	2.5" CAL
6	THE	THUJA OCCIDENTALIS	EMERALD GREEN ARBORVITAE	5' HT
8	TXH	TAXUS HICKSI	HICKS YEW	3' HT
18	TXT	TAXUS TAUTONI	TAUTON YEW	24"
10	JCS	JUNIPERUS CHINENSIS	SARGENT JUNIPER	24"
14	JCG	JUNIPERUS CHINENSIS	SEA GREEN JUNIPER	24"
8	EAG	EUONYMUS ALATUS	COMPACT BURNING BUSH	3' HT
5	WEG	WEIGELA SPECIES	SPILLED WINE WEIGELA	24"
17	WEG	WEIGELA SPECIES	DARK HORSE WEIGELA	24"
6	DRV	DIERVILLA RIVULARIS	KODIAK BLACK DIERVILLA	24"
26	PHY	PHYSOCARPUS SPECIES	SUMMER WINE NINEBARK	30"
18	ROS	ROSA SPECIES	KNOCKOUT SHRUB ROSE	24"
6	ROC	ROSA SPECIES	CORAL CARPET ROSE	24"
10	FOT	FOTHERGILLA GARDENII	DWARF FOTHERGILLA	24"
16	HYD	HYDRANGEA MACROPHYLLA	BLOOMSTRUCK HYDRANGEA	30"
5	HYL	HYDRANGEA SPECIES	LIMELIGHT HYDRANGEA	30"
29	PGY	HEMEROCALLIS SPECIES	GOING BANANAS DAYLILY	1 GAL
9	PPG	HEUCHERA SPECIES	CARAMEL CORALBELL	1 GAL
32	PRP	HEUCHERA MICRANTHA	GEORGIA PEACH CORALBELL	1 GAL
39	PWN	NEPETA RACEMOSA	WALKERS LOW CATMINT	1 GAL
10	PGG	GERANIUM SPECIES	MAX FREI GERANIUM	1 GAL
15	PHK	HAKONECHLOA MACRA	JAPANESE FOREST GRASS	1 GAL
22	PFG	PENNISETUM SPECIES	FOUNTAIN GRASS	1 GAL
27	POS	SPOROBOLUS SPECIES	PRAIRIE DROPSEED	1 GAL
7	PKF	CALAMAGROSTIS SPECIES	KARL FOERSTER GRASS	2 GAL

CALL 811 BEFORE YOU DIG — 811 — SAFE DIGGING PARTNER

Legend

- NEW DECIDUOUS AND EVERGREEN TREES
- NEW DECIDUOUS AND EVERGREEN SHRUBS
- PERENNIAL FLOWERS / ORNAMENTAL GRASSES
- BLENDED BLUEGRASS SOD APPROX. 1280 SQ'
- EXISTING TREES AND SHRUBS ON NEIGHBORING PROPERTY TO REMAIN UNDISTURBED.

NORTH

Landscape Plan

SCALE 1" = 20'-0"

0 10 20 40 60 80 100

NOTE:

1. QUANTITY LISTS ARE SUPPLIED AS A CONVENIENCE. CONTRACTOR SHALL VERIFY ALL MATERIALS QUANTITIES ON SITE.
2. ALL PLANT MATERIAL TO BE LOCALLY GROWN. ALL PLANT MATERIAL WITH THE EXCEPTION OF LOW TYPE JUNIPER, GROUNDCOVERS, PERENNIALS, SHRUBS UNDER 36" SIZE, BE BALLED AND BURLAPPED 'B & B' UNLESS OTHERWISE SPECIFIED. PLANT MATERIAL TO BE GROWN IN ACCORDANCE TO STANDARDS SET BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION. "A.N.L.A."
3. ALL PLANTINGS SHALL BE WATERED THOROUGHLY IN THE FIRST 24 HOURS AFTER PLANTING. ENSURE ALL AIR POCKETS ARE REMOVED AROUND ROOT BALL.
4. CONTRACTOR TO GUARANTEE PLANT MATERIAL FOR ONE YEAR FROM TIME OF PLANTING.
5. ALL PLANT BED AREAS TO BE MULCHED WITH PREMIUM SHREDDED HARDWOOD MULCH 3" DEEP AND SHALL BE SEPARATED FROM LAWN AREAS WITH A SPADED EDGING. APPLY TREFLAN HERBICIDE PER MANUFACTURER SPECIFICATIONS TO ALL PLANT BED AREAS.
6. ALL NEW LAWN AREAS TO BE A BLENDED BLUEGRASS SOD. CONTRACTOR TO MAINTAIN LAWNS UNTIL APPROVAL AND ACCEPTANCE BY OWNERS REPRESENTITIVE. RESTORE ALL OTHER DAMAGED LAWN AREAS DUE TO CONSTRUCTION "V.I.F.".
7. IT IS CONTRACTORS OPTION TO STAKE TREES, BUT HIS RESPONSIBILITY TO ASSURE PLANTS REMAIN PLUMB UNTIL THE END OF GUARANTEE PERIOD.
8. PLANT SIZES LISTED ARE THE MINIMUM SIZE REQUIRED. PLANTS THAT DO NOT MEET THESE MINIMUM SIZES SHALL BE REJECTED AT CONTRACTORS EXPENSE.
9. NO PLANT SPECIES OR SIZES SHALL BE SUBSTITUTED WITHOUT PRIOR APPROVAL FROM LANDSCAPE ARCHITECT OR OWNERS REPRESENTITIVE.
10. SEE SHEETS LS-1, LS-2, FOR ADDITIONAL SPECIFICATIONS AND PLANTING DETAILS.

Landscape Plans Prepared By:
Paul A. Couture
Paul A. Couture, per ISLA
ISLA License Number 157-00328

PAUL A. COUTURE #157-000328 REGISTERED STATE OF ILLINOIS PROFESSIONAL LANDSCAPE ARCHITECT 2022

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Landscape Architects / Contractors
555 Swift Road
St. Charles, Illinois 60175
Office (630) 587-1366
File (630) 587-1364
www.coutureconstruction.com

JIMMY JOHN'S
320 N. INDEPENDENCE BLVD.
ROMEOVILLE, ILLINOIS 60446

REVISIONS
04-11-22
05-14-22

DATE 03-07-22
SCALE AS SHOWN
DRAWN PAC
SHEET L-1 OF THREE

LANDSCAPE SPECIFICATIONS

SECTION 0001

LANDSCAPE WORK

PART 1 GENERAL

1.01 DESCRIPTION

THESE GENERAL REQUIREMENTS APPLY TO ALL LANDSCAPE OPERATIONS. REFER TO SPECIFICATION SECTIONS FOR SPECIFIC GENERAL, PRODUCT, AND EXECUTION REQUIREMENTS.

1.02 QUALITY ASSURANCE

A. COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS REGARDING MATERIALS, METHODS OF WORK, AND DISPOSAL OF EXCESS AND WASTE MATERIALS.
B. OBTAIN AND PAY FOR ALL REQUIRED INSPECTIONS, PERMITS, AND FEES. PROVIDE NOTICES REQUIRED BY GOVERNMENTAL AUTHORITIES.
C. OWNER SHALL APPOINT A QUALIFIED REPRESENTATIVE TO OVERSEE THE WORK AND ASSURE ITS ADHERENCE TO THE PLANS AND THESE SPECIFICATIONS. HENCEFORTH, THIS PERSON SHALL BE DESIGNATED AS OWNERS REPRESENTATIVE.
D. CONTRACTOR TO HAVE AN EXPERIENCED ENGLISH SPEAKING SUPERVISOR / FOREMAN ONSITE AT ALL TIMES THAT CAN ADEQUATELY COMMUNICATE WITH OWNERS REPRESENTATIVE WHEN NECESSARY, AND HAVE EXPERIENCED INSTALLERS WHO HAVE COMPLETED LANDSCAPING WORK SIMILAR IN MATERIAL, DESIGN, AND EXTENT AS TO THAT INDICATED FOR THIS PROJECT WITH A RECORD OF SUCCESSFUL LANDSCAPE ESTABLISHMENT.
E. CONTRACTORS WORKFORCE SHALL BE KNOWLEDGEABLE AND OR MAKE THEMSELVES KNOWLEDGEABLE OF ALL SAFETY REGULATIONS AND REQUIREMENTS PERTAINING TO THIS PROJECT INCLUDING WEARING ALL PROTECTIVE GEAR NEEDED TO COMPLY WITH THESE REQUIREMENTS. WORKMAN NOT IN COMPLIANCE CAN AND WILL BE DENIED ACCESS TO THE JOBSITE BY THE GENERAL CONTRACTOR . A SAFETY CLASS FOR WORKERS MAY BE REQUIRED BY THE GENERAL CONTRACTOR.

1.03 PROJECT CONDITIONS

A. LOCATE AND IDENTIFY EXISTING UNDERGROUND AND OVERHEAD SERVICES AND UTILITIES WITHIN CONTRACT LIMIT WORK AREAS. CONTACT UTILITY LOCATE AT 811. PROVIDE ADEQUATE MEANS OF PROTECTION OF UTILITIES AND SERVICES DESIGNATED TO REMAIN. REPAIR UTILITIES DAMAGED DURING SITE WORK OPERATIONS AT CONTRACTORS EXPENSE.
B. WHEN UNCHARTED OR INCORRECTLY CHARTED UNDERGROUND PIPING OR OTHER UTILITIES AND SERVICES ARE ENCOUNTERED DURING SITE WORK OPERATIONS, NOTIFY THE APPLICABLE UTILITY COMPANY IMMEDIATELY TO OBTAIN PROCEDURE DIRECTIONS. COOPERATE WITH THE APPLICABLE UTILITY COMPANY IN MAINTAINING ACTIVE SERVICES IN OPERATION.
C. LOCATE, PROTECT, AND MAINTAIN BENCHMARKS, MONUMENTS, CONTROL POINTS AND PROJECT ENGINEERING REFERENCE POINTS. RE-ESTABLISH DISTURBED OR DESTROYED ITEMS AT CONTRACTORS EXPENSE.
D. OBTAIN GOVERNING AUTHORITIES WRITTEN PERMISSION WHEN REQUIRED TO CLOSE OR OBSTRUCT STREET, WALKS AND ADJACENT FACILITIES. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS WHEN REQUIRED BY GOVERNING AUTHORITIES.
E. CONTROL DUST CAUSED BY THE WORK. DAMPEN SURFACES AS REQUIRED. COMPLY WITH POLLUTION CONTROL REGULATIONS OF GOVERNING AUTHORITIES. .
F. PROTECT EXISTING BUILDINGS, PAVING, AND OTHER SERVICES OR FACILITIES ON SITE AND ADJACENT TO THE SITE FROM DAMAGE CAUSED BY WORK OPERATIONS. COST OF REPAIR AND RESTORATION OF DAMAGED ITEMS AT CONTRACTORS EXPENSE.
G. PROTECT AND MAINTAIN STREETLIGHTS, UTILITY POLES AND SERVICES, TRAFFIC SIGNAL CONTROL BOXES, CURB BOXES, VALVES AND OTHER SERVICES, EXCEPT ITEMS DESIGNATED FOR REMOVAL. REMOVE OR COORDINATE THE REMOVAL OF TRAFFIC SIGNS, PARKING METERS AND POSTAL MAILBOXES WITH THE APPLICABLE GOVERNMENTAL AGENCY.
H. AT THE CONCLUSION OF EACH WORK DAY, THE CONTRACTOR IS RESPONSIBLE FOR LEAVING THE SITE IN A CLEAN AND SAFE CONDITION.

PART 2 PRODUCTS

2.01 MATERIALS AND EQUIPMENT

A. MATERIALS AND EQUIPMENT: AS SELECTED BY CONTRACTOR, EXCEPT AS INDICATED.
B. EQUIPMENT: IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
C. MATERIALS: IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION

PART 3 EXECUTION

3.01 PREPARATION

A. EXAMINE THE AREAS AND CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.
B. CONSULT THE AVAILABLE RECORDS AND DRAWINGS OF ADJACENT WORK AND OF EXISTING SERVICES AND UTILITIES WHICH MAY AFFECT WORK OPERATIONS, AS PROVIDED BY OWNER.

END OF SECTION 0001

SECTION 0002

TREE AND SHRUB PLANTING

PART 1 GENERAL

1.01 DESCRIPTION

A. PROVIDE TREES AND SHRUBS AS SHOWN AND SPECIFIED. THE WORK INCLUDES:
1. SOIL PREPARATION.
2. TREES, SHRUBS.
3. PLANTING MIXES.
4. MULCH AND PLANTING ACCESSORIES.
5. EXISTING PLANT RELOCATION.

B. RELATED WORK:
1. SECTION 00000: EARTHWORK.
2. SECTION 00004: SEEDING.
3. SECTION 00005: SODDING.
4. SECTION 00003: PERENNIAL , ORNAMENTAL GRASS, GROUNDCOVER PLANTING.

1.02 QUALITY ASSURANCE

A. COMPLY WITH SECTION 00001 REQUIREMENTS.
B. COMPLY WITH SECTION 00003 REQUIREMENTS WHEN APPLICABLE .
C. PROVIDE STOCK TRUE TO BOTANICAL NAME. DO NOT SUBSTITUTE WITHOUT PERMISSION OF OWNER OR OWNERS REPRESENTATIVE. NONCONFORMING PLANTS WILL BE REJECTED AT CONTRACTORS EXPENSE.
D. COMPLY WITH SIZING AND GRADING STANDARDS OF THE LATEST EDITION OF 'AMERICAN STANDARD FOR NURSERY STOCK'. A PLANT SHALL BE DIMENSIONED AS IT STANDS IN ITS NATURAL POSITION. NONCONFORMING PLANTS WILL BE REJECTED AT CONTRACTORS EXPENSE.
E. ALL PLANTS SHALL BE LOCALLY GROWN UNDER CLIMATIC AND SOIL CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT.
F. STOCK FURNISHED SHALL BE AT LEAST THE MINIMUM SIZE INDICATED. LARGER STOCK IS ACCEPTABLE WITHIN REASON, AT NO ADDITIONAL COST TO OWNER. ROOT SYSTEMS MUST MEET ANLA STANDARDS AS SPECIFIED. PLANTS SHOULD NOT BE ALTERED BY PRUNING OR OTHER MEANS TO MEET SPECIFICATIONS.
G. PROVIDE 'SPECIMEN' PLANTS WITH A SPECIAL HEIGHT, SHAPE OR CHARACTER OF GROWTH. SPECIMEN TREES OR SHRUBS MAY BE TAGGED AT THE SOURCE OF SUPPLY. THE OWNER'S REPRESENTATIVE MAY CHOOSE TO INSPECT SPECIMEN SELECTIONS AT THE SOURCE OF SUPPLY FOR SUITABILITY AND ADAPTABILITY TO SELECTED LOCATION. WHEN SPECIMEN PLANTS CANNOT BE PURCHASED LOCALLY, PROVIDE SUFFICIENT PHOTOGRAPHS OF THE PROPOSED SPECIMEN PLANTS FOR APPROVAL IF SO REQUESTED. NO 'PARK GRADE' MATERIAL WILL BE ACCEPTED.
H. PLANTS MAY BE INSPECTED AND APPROVED AT THE PLACE OF GROWTH, FOR COMPLIANCE WITH SPECIFICATION REQUIREMENTS FOR QUALITY, SIZE AND VARIETY.

CONTINUE SECTION 0002 TREE AND SHRUB PLANTING

1.03 SUBMITTALS

A. SUBMIT THE FOLLOWING MATERIAL SAMPLES, IF REQUESTED:
1. MULCH -BULK OR BAGGED.
2. DECORATIVE STONE OR GRAVEL -BAG OR BULK

B. SUBMIT THE FOLLOWING MATERIALS CERTIFICATION, IF REQUESTED:
1. TOPSOIL SOURCE AND PH VALUE.
2. PEAT MOSS, COMPOST, OR OTHER ORGANIC SOIL AMENDMENTS
3. PLANT FERTILIZER.

1.04 DELIVERY, STORAGE, AND HANDLING

A. DELIVER FERTILIZER MATERIALS IN ORIGINAL, UNOPENED AND UNDAMAGED CONTAINERS SHOWING WEIGHT, ANALYSIS, AND NAME OF MANUFACTURER. STORE IN MANNER TO PREVENT WETTING AND DETERIORATION.
B. TAKE ALL PRECAUTIONS CUSTOMARY IN GOOD NURSERY PRACTICE TO PREPARE PLANTS FOR TRANSPORT. WORKMANSHIP, WHICH FAILS TO MEET THE HIGHEST STANDARDS, WILL BE REJECTED. SPRAY DECIDUOUS PLANTS IN FOLIAGE WITH AN APPROVED ANTI- DESICCANT IMMEDIATELY BEFORE DIGGING TO PREVENT DEHYDRATION WHEN IN LEAF. DIG, PACK, TRANSPORT, AND HANDLE PLANTS WITH CARE TO ENSURE PROTECTION AGAINST INJURY.
C. COVER PLANTS TRANSPORTED ON OPEN VEHICLES WITH A PROTECTIVE COVERING TO PREVENT WINDBURN.
D. MOISTEN ALL BURLAP ROOT BALL BEFORE TRANSPORTING. PREVENT SURFACE FROM DRYING DURING TRANSPORTING

1.05 PROJECT CONDITIONS

A. WORK NOTIFICATION: NOTIFY OWNERS REPRESENTATIVE AT LEAST TWO (2) WORKING DAYS PRIOR TO INSTALLATION OF PLANT MATERIAL.
B. PROTECT EXISTING UTILITIES, PAVING, AND OTHER FACILITIES FROM DAMAGE CAUSED BY LANDSCAPING OPERATIONS. CALL 811 TO MARK UNDERGROUND UTILITIES A MINIMUM OF 48 HOURS BEFORE DIGGING.
C. A COMPLETE LIST OF PLANTS, INCLUDING A SCHEDULE OF SIZES, QUANTITIES, AND OTHER REQUIREMENTS IS SHOWN ON THE DRAWINGS. IN THE EVENT THAT QUANTITY DISCREPANCIES OR MATERIAL OMISSIONS OCCUR IN THE PLANT MATERIALS LIST, THE PLANTING PLANS SHALL GOVERN. PAYMENT SHALL BE BASED ON ACTUAL INSTALLED PLANT COUNT.

1.06 WARRANTY

A. WARRANT PLANT MATERIAL TO REMAIN ALIVE AND BE IN A HEALTHY, VIGOROUS CONDITION FOR A PERIOD OF ONE (1) YEAR AFTER ACCEPTANCE, PROVIDED PLANTS ARE GIVEN PROPER CARE BY OWNER DURING THIS PERIOD.
1. CONTRACTOR TO CALL FOR FINAL INSPECTION OF PLANTS.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT THE WATERING, CULTIVATION AND OTHER MAINTENANCE OPERATIONS PERFORMED BY THE OWNER DURING THE WARRANTY PERIOD.
3. ANY METHODS OR PRACTICES, WHICH THE CONTRACTOR CONSIDERS UNSATISFACTORY AND NOT IN ACCORD WITH STANDARD HORTICULTURAL PRACTICES SHALL BE REPORTED TO THE OWNER IN WRITING.

B. REMOVE AND IMMEDIATELY REPLACE ALL PLANTS, AS DETERMINED BY THE OWNERS REPRESENTATIVE, TO BE UNSATISFACTORY DURING THE INITIAL PLANTING INSTALLATION.
C. REPLACE ONCE, IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, ALL PLANTS THAT ARE DEAD OR, AS DETERMINED BY OWNER'S REPRESENTATIVE, ARE IN A SEVERELY UNHEALTHY CONDITION WITHIN WARRANTY PERIOD. REPLACEMENTS TO BE INSTALLED AT NEXT BEST PLANTING SEASON.
D. WARRANTY SHALL NOT INCLUDE DAMAGE OR LOSS OF TREES, PLANTS, OR GROUND COVERS CAUSED BY FIRES, FLOODS, DROUGHT, FREEZING RAINS, LIGHTNING STORMS, OR WINDS OVER 75 MILES PER HOUR, WINTER KILL CAUSED BY EXTREME COLD AND SEVERE WINTER CONDITIONS NOT TYPICAL OF PLANTING AREAS; ACTS OF VANDALISM, ANIMAL DESTRUCTION OR NEGLIGENCE ON THE PART OF THE OWNER. ANY REPLACEMENT ATTRIBUTED TO THESE CAUSES MUST BE IN ADDITION TO THE CONTRACT AMOUNT.

PART 2 PRODUCTS

2.01 MATERIALS

A. PLANTS: PROVIDE PLANTS TYPICAL OF THEIR SPECIES OR VARIETY; WITH NORMALLY DEVELOPED BRANCHES AND VIGOROUS ROOT SYSTEMS. PROVIDE ONLY SOUND, HEALTHY, VIGOROUS PLANTS FREE FROM DEFECTS, DISFIGURING KNOTS, SUNSCALD INJURIES, FROST CRACKS, ABRASIONS OF THE BARK, PLANT DISEASES, INSECT EGGS, BORERS, AND ALL FORMS OF INFESTATION.
1. DIG BALLED AND BURLAPPED PLANTS WITH FIRM, NATURAL BALLS OF EARTH OF SUFFICIENT DIAMETER AND DEPTH AS NECESSARY FOR FULL RECOVERY OF THE PLANT. PROVIDE BALL SIZES COMPLYING WITH THE LATEST EDITION OF THE 'AMERICAN STANDARD FOR NURSERY STOCK'. CRACKED OR MUSHROOMED BALLS ARE NOT ACCEPTABLE.
2. CONTAINER-GROWN STOCK SHALL HAVE GROWN IN A CONTAINER FOR SUFFICIENT LENGTH OF TIME FOR THE ROOT SYSTEM TO HAVE DEVELOPED TO HOLD ITS SOIL TOGETHER, FIRM AND WHOLE.
A. NO PLANTS SHALL BE LOOSE IN THE CONTAINER.
B. CONTAINER STOCK SHALL NOT BE POT BOUND.
3. IF THE USE OF LARGER THAN SPECIFIED PLANTS IS ACCEPTABLE, INCREASE THE SPREAD OF ROOTS OR ROOT BALL IN PROPORTION TO THE SIZE OF THE PLANT.
4. THE HEIGHT OF THE TREES, MEASURED FROM THE CROWN OF THE ROOTS TO THE TOP OF THE TOP BRANCH, SHALL NOT LESS THAN THE MINIMUM SIZE AND VARIETY DESIGNATED IN THE PLANT LIST AND ACCORDING TO THE ANLA STANDARDS FOR NURSERY STOCK.
5. SHRUBS AND SMALL PLANTS SHALL MEET THE REQUIREMENTS FOR SPREAD AND/OR HEIGHT INDICATED IN THE PLANT LIST AND BE IN ACCORDANCE WITH ANLA STANDARDS.

2.02 ACCESSORIES

A. TOPSOIL FOR PLANTING BEDS: FERTILE, FRIABLE, NATURAL TOPSOIL WITHOUT ADMIXTURE OF SUBSOIL MATERIAL, OBTAINED FROM A WELL-DRAINED ARABLE SITE, REASONABLY FREE FROM CLAY, LUMPS, COARSE SANDS, STONES, PLANTS, ROOTS, STICKS, AND OTHER FOREIGN MATERIALS, WITH ACIDITY RANGE OF BETWEEN PH 5.5 TO 6.0 AND BE TYPICAL OF THE AREA.
1. IDENTIFY SOURCE LOCATION OF TOPSOIL PROPOSED FOR USE ON THE PROJECT.
2. PROVIDE TOPSOIL FREE OF SUBSTANCES HARMFUL TO THE PLANTS WHICH WILL BE GROWN IN THE SOIL.

B. PEAT MOSS: BROWN TO BLACK IN COLOR, WEED AND SEED FREE GRANULATED RAW PEAT OR BALED PEAT, CONTAINING NOT MORE THAN 9% MINERAL ON A DRY BASIS.
C. ORGANIC MATTER: ORGANIC MATTER CAN BE FROM PEAT MOSS, COMPOST, OR LOCALLY AVAILABLE ORGANIC WASTE. ORGANIC MATTER SHOULD BE WELL COMPOSTED, FREE FROM DEBRIS, WEED SEEDS, AND INSECTS OR DISEASES WHICH MAY BE HARMFUL TO THE INTENDED PLANTING.
D. MULCH: DARK PREMIUM GRADE , DOUBLE PROCESSED SHREDDED HARDWOOD UNLESS OTHERWISE APPROVED BY OWNERS REPRESENTATIVE.
E. FERTILIZER:
1. PLANT FERTILIZER: COMMERCIAL TYPE APPROVED BY THE OWNERS REPRESENTATIVE, CONTAINING 10% NITROGEN, 10% PHOSPHORIC ACID AND 10% POTASH BY WEIGHT OR EQUIVALENT IN A SLOW RELEASED GRANULAR FORM.

F. PRE EMERGENT HERBICIDE: TREFLAN, RONSTAR-G OR APPROVED EQUIVALENT APPLIED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS TO ALL PLANT BED AREAS UNLESS OTHERWISE INDICATED.
G. ANTI-DESICCANT: PROTECTIVE FILM EMULSION PROVIDING A PROTECTIVE FILM OVER PLANT SURFACES; PERMEABLE TO PERMIT TRANSPIRATION. MIXED AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
H. WATER: HOSES OR OTHER METHODS OF TRANSPORTATION TO BE FURNISHED BY CONTRACTOR. WATER TO BE PROVIDED BY THE OWNER AT THE SITE.
I. STAKES FOR STAKING: HARDWOOD, 2" X 2" 6-8' LONG 2X4 PINE IS PERMISSIBLE.
J. STAKES FOR GUYING: HARDWOOD, 2" X 2" X 24" LONG OR 'DUCKBILL' OR 'SPEED STAKE' EARTH ANCHORS.
K. GUYING/STAKING WIRE: 12- OR 14-GAUGE GALVANIZED WIRE.
1. TURNBUCKLES: GALVANIZED STEEL OF SIZE AND GAUGE REQUIRED TO PROVIDE TENSILE STRENGTH EQUAL TO THAT OF THE WIRE. TURNBUCKLE OPENINGS SHALL BE AT LEAST 3".

L. STAKING AND GUYING HOSE: TWO-PLY, REINFORCED GARDEN HOSE NOT LESS THAN 1/2" INSIDE DIAMETER. SHALL BE UNIFORM IN COLOR.
M. PLASTIC GUY MATERIAL NO LESS THAN 1/4". SHALL BE UNIFORM IN COLOR AND LEVEL AS APPLIED.
N. TWINE: TWO-PLY JUTE MATERIAL.
O. WEED CONTROL BARRIER: 'IF INDICATED' ROT RESISTANT POLYPROPYLENE FABRIC OR EQUIVALENT, WATER AND AIR PERMEABLE.

PART 3 EXECUTION

3.01 INSPECTION

A. EXAMINE PROPOSED PLANTING AREAS AND CONDITIONS BEFORE INSTALLATION. DO NOT START PLANTING WORK UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.

3.02 PREPARATION

A. COORDINATION AND SCHEDULING - TIME OF PLANTING
COORDINATE INSTALLATION OF PLANTING MATERIALS DURING NORMAL PLANTING SEASONS FOR EACH TYPE OF PLANT MATERIAL REQUIRED. NORMAL SEASONS FOR THE INSTALLATION OF PLANT MATERIAL SHALL BE AS FOLLOWS:
1. SPRING PLANTING: PERFORM FROM TIME SOIL BECOMES WORKABLE TO JUNE 15. INSTALL EVERGREEN TREES PRIOR TO NEW GROWTH BEGINNING IN THE SPRING.
2. FALL PLANTING: PERFORM FROM SEPTEMBER 1 TO NOVEMBER 15. PERENNIALS AND GROUND COVERS SHALL BE COMPLETED BY OCTOBER 15.
3. SUMMER PLANTING: PLANTING PERFORMED BETWEEN JUNE 15 AND AUGUST 31, SHALL BE CONSIDERED UNSEASONABLE AND WILL REQUIRE OWNER'S APPROVAL.

B. PLANTING SHALL BE PERFORMED ONLY BY EXPERIENCED WORKMEN FAMILIAR WITH PLANTING PROCEDURES UNDER THE SUPERVISION OF A QUALIFIED SUPERVISOR.

C. LOCATE PLANTS AS INDICATED ON DRAWINGS. IF OBSTRUCTIONS ARE ENCOUNTERED THAT ARE NOT SHOWN ON THE DRAWINGS, DO NOT PROCEED WITH PLANTING OPERATIONS UNTIL OWNER'S REPRESENTATIVE HAS SELECTED ALTERNATE PLANT LOCATIONS.

D. EXCAVATE CIRCULAR PLANT PITS WITH VERTICAL SIDES, EXCEPT FOR PLANTS SPECIFICALLY INDICATED TO BE PLANTED IN BEDS. PROVIDE SHRUB PITS AT LEAST TWICE AS WIDE AS THE ROOT SYSTEM AND 24" GREATER FOR TREES. DEPTH OF PIT SHALL BE NO GREATER THAN THE ROOT BALL DEPTH. SCARIFY BOTTOM OF THE PIT. REMOVE EXCESS EXCAVATED MATERIALS FROM THE SITE.

E. PLANTING MIXTURE FOR USE AROUND THE BALLS AND ROOTS OF TREES AND SHRUBS SHALL CONSIST OF FIVE (5) PARTS EXISTING SOIL TO ONE (1) PART PEAT MOSS AND LB. PLANT FERTILIZER FOR EACH CUBIC YARD OF MIXTURE OR EQUIVALENT. BAGGED BARK PROFESSIONAL MIXES ARE AN EQUIVALENT SUBSTITUTE FOR PEAT MOSS.

3.03 INSTALLATION

A. SET PLANT MATERIAL IN THE PLANTING PIT TO PROPER GRADE AND ALIGNMENT. SET PLANTS UPRIGHT, PLUM AND FACED TO GIVE THE BEST APPEARANCE OR RELATIONSHIP TO EACH OTHER OR ADJACENT STRUCTURE. SET PLANT MATERIAL NO LOWER THAN THE FINISH GRADE OR 2"-3" ABOVE FINISHED GRADE. NO FILLING WILL BE PERMITTED AROUND TRUNKS OR STEMS. BACK FILL THE PIT WITH EXISTING SOIL OR APPROVED TOP SOIL OR MIX. FORM A RING OF SOIL AROUND THE EDGE OF EACH PLANTING PIT TO RETAIN WATER.

B. AFTER PLANTS ARE SET, MUDDLE PLANTING SOIL MIXTURE AROUND BASES OF BALLS AND FILL ALL VOIDS.
1. REMOVE ALL SYNTHETIC BURLAP AND ROPES, AND WIRES FROM THE COLLAR OF BALLS.

C. SPACE PLANTS IN ACCORDANCE WITH SCALED DRAWINGS.

D. WATERING: WATER PLANTING THOROUGHLY TO PULL SOILS AGAINST ROOT BALL AND SETTLE AIR POCKETS. ADDITIONAL SOIL MAY BE NEEDED, WATER AGAIN TO ENSURE COMPLETE COMPACTION.

E. MULCHING: TREES AND SHRUBS SHALL HAVE MULCH APPLIED IMMEDIATELY AFTER PLANTING. AFTER WATERING, RAKE MULCH TO PROVIDE A UNIFORM FINISHED SURFACE.
1. MULCH TREES AND SHRUBS WITH REQUIRED MULCHING MATERIAL 3-4"
2. MULCH PERENNIAL BEDS 2- 3" DEEP
3. MULCH GROUND COVER BEDS TO A DEPTH OF 1-2" (NO MORE THAN 2") BEFORE INSTALLING GROUNDCOVER PLANTS. BRUSH MULCH OFF OF FOLIAGE.

F. WRAPPING, GUYING, STAKING: IT IS THE CONTRACTORS TO OPTION TO STAKE TREES, BUT HIS RESPONSIBILITY TO ASSURE PLANTS REMAIN PLUMB UNTIL END OF THE GUARANTEE PERIOD.
1. WRAPPING SHOULD BE DONE ONLY ON AN AS NEED BASIS.
2. STAKING/GUYING (IF NEEDED)
A. STAKE/GUY SHOULD ONLY BE USED WHEN TREES ARE LOOSE OR WEAK STEMMED.
SEE STAKING DETAILS ON THE DRAWINGS

G. PRUNING:
1. REMOVE OR CUT BACK BROKEN, DAMAGED AND ASYMMETRICAL GROWTH OF NEW WOOD.
2. UNLESS OTHERWISE DIRECTED, PRUNE EVERGREENS ONLY TO REMOVE BROKEN OR DAMAGED BRANCHES.

H. EXISTING PLANT RELOCATION:
1. TRANSPLANT TREES AND SHRUBS DESIGNATED FOR RELOCATION TO LOCATIONS SHOWN ON THE DRAWINGS. PRUNE, DIG, BALL AND BURLAP, MOVE AND PLANT IN ACCORDANCE WITH SPECIFIED TREE PLANTING REQUIREMENTS.
2. PRUNE, DIG, BALL AND BURLAP, AND MOVE DESIGNATED TREES FOR RELOCATION TO THE DESIGNATED PLANT STORAGE AREA FOR HEELING-IN OF MATERIALS UNTIL FINAL PLANTING AREAS ARE PREPARED, IF REQUIRED.
A. MAINTAIN PLANTS IN STORAGE AREAS BY BRACING PLANTS IN VERTICAL POSITION AND SETTING BALLS IN AN ENCLOSED BERM OF TOPSOIL OR BARK. WATER AS REQUIRED TO MAINTAIN ADEQUATE ROOT MOISTURE.
B. RE-BURLAP PLANT BALLS IF REQUIRED BEFORE FINAL TRANSPLANTING OPERATIONS.
C. MOVE TO FINAL LOCATIONS SHOWN ON THE DRAWINGS AND PLANT IN ACCORDANCE WITH SPECIFIED TREE PLANTING REQUIREMENTS.
3. TRANSPLANTS ARE NOT UNDER WARRANTY UNLESS INDICATED.

3.04 MAINTENANCE

A. MAINTENANCE OF INSTALLED AND ACCEPTED PLANTINGS WILL BE PERFORMED BY THE OWNER.
B. CONTRACTOR'S MAINTENANCE SHALL INCLUDE PRUNING, CULTIVATING, WEEDING, WATERING, AND APPLICATION OF APPROPRIATE INSECTICIDES AND FUNGICIDES NECESSARY TO MAINTAIN PLANTS FREE OF INSECTS AND DISEASE UNTIL ACCEPTANCE.
1. RE-SET SETTLED PLANTS TO PROPER GRADE AND POSITION. RESTORE PLANTING SAUCER AND ADJACENT MATERIAL AND REMOVE DEAD MATERIAL.
2. TIGHTEN AND REPAIR GUY WIRES AND STAKES AS REQUIRED, ONLY IF ORIGINALLY NEEDED.
3. CORRECT DEFECTIVE WORK AS SOON AS POSSIBLE AFTER DEFICIENCIES BECOME APPARENT AND WEATHER AND SEASON PERMIT.
4. WATER ALL PLANT MATERIAL AS NECESSARY .

3.05 ACCEPTANCE

A. PLANTED AREAS WILL BE INSPECTED AT COMPLETION OF INSTALLATION AND ACCEPTED SUBJECT TO COMPLIANCE WITH SPECIFIED MATERIALS AND INSTALLATION REQUIREMENTS.
B. INSPECTION UPON CONTRACTORS REQUEST TO DETERMINE ACCEPTANCE OF PLANTED AREAS WILL BE MADE BY THE OWNER'S REPRESENTATIVE.
1. PLANTED AREAS WILL BE ACCEPTED PROVIDED ALL REQUIREMENTS HAVE BEEN COMPLIED WITH AND PLANT MATERIALS ARE ALIVE AND IN A HEALTHY, VIGOROUS CONDITION.
C. SECTIONS OF THE WORK MAY BE ACCEPTED WHEN COMPLETE UPON AGREEMENT OF THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR.
D. UPON ACCEPTANCE, THE OWNER WILL ASSUME PLANT MAINTENANCE.

3.06 CLEANING

A. PERFORM CLEANING DURING INSTALLATION AND UPON COMPLETION OF THE WORK. REMOVE FROM SITE ALL EXCESS MATERIALS, SOIL, DEBRIS, AND EQUIPMENT. REPAIR DAMAGE RESULTING FROM PLANTING OPERATIONS.

END OF SECTION 0002

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REVISIONS 04-11-22

DATE 03-07-22

SCALE AS SHOWN

DRAWN PAC

SHEET LS-1 OF THREE

LANDSCAPE SPECIFICATIONS

SECTION 0003

PERENNIALS - ORNAMENTAL GRASSES - GROUNDCOVER PLANTING

PART 1 GENERAL

1.01 DESCRIPTION

A. PROVIDE PERENNIALS, ORNAMENTAL GRASSES AND GROUND COVERS AS SHOWN AND SPECIFIED. THE WORK INCLUDES:
   1. SOIL PREPARATION.
   2. PERENNIAL, ORNAMENTAL GRASSES AND GROUNDCOVERS.
   3. PLANTING MIXES.
   4. MULCH AND PLANTING ACCESSORIES.

B. RELATED WORK:
   1. SECTION 00000: EARTHWORK.
   2. SECTION 00001: SEEDING.
   3. SECTION 00005: SODDING.
   4. SECTION 00002: TREE AND SHRUB PLANTING.

1.02 QUALITY ASSURANCE

A. COMPLY WITH SECTION 00001 REQUIREMENTS. COMPLY WITH SECTION 00002 WHEN APPLICABLE.

B. LANDSCAPE CONTRACTORS SHALL PROVIDE STOCK TRUE TO BOTANICAL NAME AND LEGIBLY TAGGED. DO NOT SUBSTITUTE WITHOUT PERMISSION OF LANDSCAPE ARCHITECT.

C. COMPLY WITH SIZING AND GRADING STANDARDS OF THE LATEST EDITION OF 'AMERICAN STANDARD FOR NURSERY STOCK'. A PLANT SHALL BE DIMENSIONED AS IT STANDS IN ITS NATURAL POSITION.
   1. SPECIFIED POT SIZES AND PLANT GRADES SHOULD COMPLY WITH THE STANDARDS ACCEPTED BY THE ANLA. THESE STANDARDS LIST MINIMUM DIMENSIONS FOR CONTAINERS IN VARIOUS CLASSES AND DEFINE MINIMUM STANDARDS FOR BARE ROOT LINERS, DIVISIONS, AND FIELD CLUMPS.

D. ALL PLANTS SHALL BE LOCALLY GROWN UNDER CLIMATIC AND SOIL CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT.

E. STOCK FURNISHED SHALL BE AT LEAST THE MINIMUM SIZE INDICATED. LARGER STOCK IS ACCEPTABLE WITHIN REASON, AT NO ADDITIONAL COST TO OWNER. ROOT SYSTEMS MUST MEET ANLA STANDARDS AS SPECIFIED. PLANTS SHOULD NOT BE ALTERED BY PRUNING OR OTHER MEANS TO MEET SPECIFICATIONS.

F. PLANTS MAY BE INSPECTED AND APPROVED AT THE PLACE OF GROWTH, FOR COMPLIANCE WITH SPECIFICATION REQUIREMENTS FOR QUALITY, SIZE AND VARIETY.

1.03 SUBMITTALS

A. AFTER PREPARATION, A SAMPLE OF THE PLANTING SOIL SHALL BE SUBMITTED TO THE LANDSCAPE IF REQUESTED, PRIOR TO INSTALLATION OF THE PLANTS. ADDITIONAL ORGANIC MATTER AND PREPARATION MAY BE REQUIRED BASED ON THE PHYSICAL PROPERTIES OF THE SAMPLE SUBMITTED. A SEPARATE SAMPLE FROM EACH PLANTING BED SHALL BE SUBMITTED IF REQUESTED.

B. A SAMPLE OF THE ORGANIC MATTER SPECIFIED SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO USE. A LABORATORY ANALYSIS MAY BE REQUESTED IF DEEMED NECESSARY.

C. PRIOR TO USE, LABELS OF ALL SOIL AMENDMENTS SHALL BE INSPECTED BY THE LANDSCAPE ARCHITECT TO VERIFY COMPLIANCE WITH THE DESIGN SPECIFICATIONS. SAMPLES MAY BE REQUESTED FOR LABORATORY ANALYSIS.

D. EACH SEPARATELY CONTAINERIZED PLANT BROUGHT TO THE SITE SHALL BE LABELED WITHIN REASON. FLATS OF THE SAME PLANTS MAY HAVE ONE LABEL PER FLAT. EACH BUNDLE OF BARE ROOT PLANTS SHALL BE LABELED. THESE LABELS MUST SHOW THE BOTANICAL NAME OF THE PLANT. THE LANDSCAPE ARCHITECT SHALL INSPECT THE LABELS, CONTAINER SIZES, AND DIVISION SIZES OF BARE ROOT PLANTS FOR COMPLIANCE TO THE DESIGN SPECIFICATIONS PRIOR TO PLANTING. THE LANDSCAPE ARCHITECT SHALL ALSO VERIFY THAT THE PLANTS DELIVERED TO THE SITE ARE LABELED TRUE TO NAME. UPON ACCEPTANCE OF THE PLANTS BY THE OWNER, THE LANDSCAPE CONTRACTOR SHALL PROVIDE WRITTEN MAINTENANCE PROCEDURES FOR MAINTENANCE OF THE PLANTS.

E. FOLLOWING THE INSTALLATION, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE LANDSCAPE ARCHITECT WITH A COPY OF THE ORIGINAL PLAN NOTING ANY SITE ADJUSTMENTS TO THAT ORIGINAL PLAN

PART 2 PRODUCTS

2.01 MATERIALS

A. PLANTS: PROVIDE PLANTS TYPICAL OF THEIR SPECIES OR VARIETY; WITH NORMALLY DEVELOPED HABIT AND VIGOROUS ROOT SYSTEMS. PROVIDE ONLY SOUND, HEALTHY, VIGOROUS PLANTS FREE FROM DEFECTS, SUNSCALD INJURIES, PLANT DISEASES, INSECT EGGS, AND ALL FORMS OF INFESTATION.
   1. CONTAINER-GROWN STOCK SHALL HAVE GROWN IN A CONTAINER FOR SUFFICIENT LENGTH OF TIME FOR THE ROOT SYSTEM TO HAVE DEVELOPED TO HOLD ITS SOIL TOGETHER, FIRM AND WHOLE.
      A. NO PLANTS SHALL BE LOOSE IN THE CONTAINER.
      B. CONTAINER STOCK SHALL NOT BE POT BOUND.
   2. IF THE USE OF LARGER THAN SPECIFIED PLANTS IS ACCEPTABLE, INCREASE THE SPREAD OF ROOTS OR CONTAINER SIZE IN PROPORTION TO THE SIZE OF THE PLANT.
   3. PLANTS SHALL MEET THE REQUIREMENTS FOR SPREAD AND/OR HEIGHT INDICATED IN THE PLANT LIST AND BE IN ACCORDANCE WITH ANLA STANDARDS.

2.02 PLANT SPECIFICATIONS

A. PERENNIAL AND GROUNDCOVER PLANTS ARE SPECIFIED FOR DESIGN BY THE CONTAINER CLASS AND SIZE (I.E. 2" SQUARE CONTAINER OR 1 QUART CONTAINER, ETC.) OR, IF BARE ROOT, BY GRADE AS ACCEPTED BY ANLA STANDARDS FOR NURSERY STOCK AND THE PRODUCTION TRADE (I.E. 1-EYE DIVISION, 2-3 EYE DIVISION, FIELD CLUMP, ETC.).

B. PERENNIALS ARE SPECIFIED BY TYPE:
   1. CONTAINER-GROWN - GROWN TO A SPECIFIED SIZE IN A CONTAINER.
   2. BARE ROOT - PURCHASED FREE OF ANY GROWING MEDIUM REGARDLESS OF GROWING METHOD.
   3. FIELD-POTTED - FIELD-GROWN PLANTS WHICH ARE POTTED FOR DELIVERY AS THEY ARE DUG FROM THE FIELD.

2.03 SOIL REQUIREMENTS

DEPENDING ON EXISTING CONDITIONS OF TOPSOIL ONSITE, REQUIRED SOIL MIX MAY BE PREPARED ONSITE THROUGH MANUAL AND MECHANICAL MEANS, OR IN THE EVENT EXISTING SOIL IS IN UNACCEPTABLE CONDITION AND MAKEUP, NEW TOPSOIL OR A COMPLETE MIX TO BE INSTALLED AFTER EXISTING SOIL IS EXCAVATED TO PROPER DEPTH AND REMOVED / DISPOSED OFFSITE.
FINAL SOIL COMPOSITION IN PERENNIAL, ORNAMENTAL GRASS AND GROUNDCOVER BEDS TO BE
40% TOPSOIL, 30% ORGANIC MATTER, 30% COARSE SAND, PLUS 1 LB. FERTILIZER PER CUBIC YARD OF SOIL MIX

A. SOIL FOR PERENNIAL BEDS SHOULD BE ROTOTILLED 8 INCHES DEEP MINIMUM. GROUNDCOVER BEDS AT 6" MINIMUM UNLESS OTHERWISE NOTED. TOP SOIL SHOULD BE DRY, LOOSE, AND FREE OF DEBRIS. WHERE HARDPAN EXISTS BENEATH THE PREPARED BED, DEEPER PREPARATION MAY BE SPECIFIED. ADDITIONALLY, THE LANDSCAPE CONTRACTOR SHOULD IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT IF ANY BEDS DO NOT DRAIN PROPERLY.
BAGGED BARK PROFESSIONAL MIXES ARE AN EQUIVALENT SUBSTITUTE FOR PEAT MOSS.

2.04 AMENDMENTS

A. TOPSOIL: TOPSOIL FOR PLANTING BEDS: FERTILE, FRIABLE, NATURAL TOPSOIL WITHOUT ADMIXTURE OF SUBSOIL MATERIAL, OBTAINED FROM A WELL-DRAINED ARABLE SITE, REASONABLY FREE FROM CLAY, LUMPS, COARSE SANDS, STONES, PLANTS, ROOTS, STICKS, AND OTHER FOREIGN MATERIALS, WITH ACIDITY RANGE OF BETWEEN PH 5.5 TO 6.0 AND BE TYPICAL OF THE AREA.
   1. IDENTIFY SOURCE LOCATION OF TOPSOIL PROPOSED FOR USE ON THE PROJECT.
   2. PROVIDE TOPSOIL FREE OF SUBSTANCES HARMFUL TO THE PLANTS WHICH WILL BE GROWN IN THE SOIL.

B. ORGANIC MATTER: ORGANIC MATTER CAN BE FROM PEAT MOSS, COMPOST, OR LOCALLY AVAILABLE ORGANIC WASTE. ORGANIC MATTER SHOULD BE WELL COMPOSTED, FREE FROM DEBRIS, WEED SEEDS, AND INSECTS OR DISEASES WHICH MAY BE HARMFUL TO THE INTENDED PLANTING

C. FERTILIZERS: TO BE DELIVERED TO THE JOB SITE IN THEIR ORIGINAL PACKAGING WITH LEGIBLE, INTACT LABELS INDICATING NUTRIENT CONTENT AND SOURCE. LABELS SHOULD BE CHECKED PRIOR TO USE AND A SAMPLE MAY BE REQUESTED FOR LABORATORY ANALYSIS.
   1. COMMERCIAL TYPE APPROVED BY THE OWNER'S REPRESENTATIVE, CONTAINING 10% NITROGEN, 10% PHOSPHORIC ACID AND 10% POTASH BY WEIGHT OR EQUIVALENT IN A SLOW RELEASED GRANULAR FORM.

D. COARSE SAND: GRADATION FA-2

PART 3 EXECUTION

3.01 PRE-PLANTING AND POST-PLANTING INSTRUCTIONS

A. PRE-PLANTING.
   1. PLANTS SHALL BE BROUGHT TO THE SITE THE DAY THEY ARE TO BE INSTALLED, IF POSSIBLE. IF SITUATIONS ARISE WHERE EARLIER DELIVERY CANNOT BE AVOIDED OF IF PLANTING IS DELAYED AFTER THE PLANTS HAVE BEEN DELIVERED, THEY SHALL BE STORED WHERE THEY CAN BE PROPERLY WATERED, SHELTERED FROM DIRECT SUNLIGHT, AND PROTECTED FROM MECHANICAL DAMAGE BY CONSTRUCTION EQUIPMENT, ANIMALS, ETC. IF STORAGE NEEDS TO BE MORE THAN TWO DAYS, THE PLANTS SHALL BE SEPARATED FAR ENOUGH FROM EACH OTHER TO PROVIDE GOOD AIR CIRCULATION TO THEIR TOPS, REDUCING THE RISK OF FUNGUS. BARE ROOT PLANTS WHICH MUST BE HELD SHALL BE HEALED-IN WHERE THEY CAN BE WATERED AS NEEDED.
   2. ALL PLANTS SHALL BE WATERED THOROUGHLY AND ALLOWED TO DRAIN PRIOR TO PLANTING.
   3. WHILE PLANTING, BARE ROOT PLANTS MUST BE PROTECTED FROM HOT SUN AND DRYING WIND BY SHADING THEM WITH BURLAP, LANDSCAPE FABRIC, STRAW OR OTHER BREATHABLE MATERIAL. PLASTIC IS UNACCEPTABLE. CONTAINERIZED PLANTS MUST BE LEFT IN THEIR CONTAINERS UNTIL EACH IS PLANTED. THEY SHALL NOT BE REMOVED FROM THE CONTAINERS TO BE LAID OUT ON THE BED WHERE SUN AND WIND WILL DAMAGE THE ROOTS PRIOR TO PLANTING.
   4. ANY DEAD OR DAMAGED PLANT PARTS SHALL BE REMOVED FROM THE PLANTS UPON PLANTING.
   5. SPACING: SPACE GROUNDCOVERS AND PERENNIALS IN ACCORDANCE WITH DESIGNATED AREAS ON DRAWINGS. IN CASE OF AREA SIZE DISCREPANCIES, A TIGHTER SPACING IS PREFERRED.

B. POST-PLANTING
   1. MULCH: WHERE MULCHING IS SPECIFIED, THE MULCH MUST BE PULLED AWAY FROM THE STEMS AND CROWNS OF PERENNIALS AND GROUNDCOVERS TO REDUCE THE OCCURRENCE OF ROT OR RODENT DAMAGE. MULCH THICKNESS IN BED AREAS SHOULD BE 2-3" FOR PERENNIALS AND 1-2" FOR GROUNDCOVERS.
   2. PERENNIAL AND GROUNDCOVER BED AREAS TO BE THOROUGHLY WATERED IMMEDIATELY AFTER INSTALLATION AND CLEANUP.

3.02 MAINTENANCE

A. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE PERENNIALS FROM THE TIME THEY ARE BROUGHT ONTO THE JOB SITE UNTIL THEY ARE PLANTED AND ACCEPTED BY THE LANDSCAPE ARCHITECT.
   1. PLANTS SHALL BE WATERED OFTEN ENOUGH TO PREVENT WILTING PRIOR TO PLANTING. AFTER PLANTING, THEY SHALL BE WATERED INITIALLY TO SETTLE THE SOIL, THEN TO PREVENT WILTING AND TO ALLOW THEM TO BECOME ESTABLISHED ON THE SITE.
   2. THE BEDS SHALL BE FREE OF WEEDS AT PLANTING TIME AND SHALL BE MAINTAINED WEED FREE BY THE CONTRACTOR UNTIL THE PLANTING IS ACCEPTED BY THE CLIENT.
   3. SHOULD INSECTS OR DISEASES ATTACK THE PLANTS AFTER INSTALLATION AND PRIOR TO ACCEPTANCE OF THE PLANTING, APPROPRIATE PESTICIDES SHALL BE PROPERLY APPLIED TO CORRECT THE SITUATION.
   4. THE BEDS SHOULD BE CHECKED REGULARLY FOR SOIL SETTLING WHICH MAY EXPOSE THE ROOT BALLS OR OTHERWISE ENDANGER THE HEALTH OF THE PLANTING. SHOULD THIS OCCUR, THE CONTRACTOR SHALL CORRECT THE SETTLING PROBLEMS.
   5. NEWLY PLANTED PERENNIALS AND GROUNDCOVERS MAY BE HEAVED OUT OF THE GROUND BY ALTERNATE FREEZES AND THAWS. SHOULD THIS OCCUR PRIOR TO ACCEPTANCE OF THE PLANTING, THE CONTRACTOR SHALL RE-SET THOSE AFFECTED PLANTS.
   6. ANY NOTED DEFECTS, SUCH AS REVERSIONS, ERRANT GROWTH OR COLOR NOT TYPICAL FOR THE SPECIES OR CULTIVAR, SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. THE RECOMMENDATIONS OF THE LANDSCAPE ARCHITECT SHALL BE FOLLOWED TO CORRECT THE SITUATION. RECOMMENDATIONS MAY INCLUDE REMOVAL OF THE ENTIRE PLANT.

B. THE CLIENT OR THE CLIENT'S ASSIGNED AGENT BECOMES RESPONSIBLE FOR THE MAINTENANCE OF THE PLANTS AFTER THE PLANTING HAS BEEN ACCEPTED BY THE LANDSCAPE ARCHITECT. FAILURE TO PROPERLY MAINTAIN THE PLANTING SHALL VOID ANY WARRANTY.
   1. THE CLIENT SHALL WATER THE PLANTS TO PREVENT WILTING. THE SCHEDULE WILL VARY WITH THE GROWTH OF THE PLANTS AND PREVAILING CLIMATE. GENERALLY, NEW PLANTINGS WILL NEED TO RECEIVE 1 INCH OF WATER PER WEEK. A RAIN GAUGE SHOULD BE PLACED IN THE PLANTING TO CATCH BOTH RAINFALL AND IRRIGATION WATER TO VERIFY THE AMOUNT OF APPLICATION.
   2. THE CLIENT SHALL PROPERLY PINCH, PRUNE, AND DEADHEAD THE HERBACEOUS PERENNIALS AS NEEDED AND AS REQUIRED TO MEET THE AESTHETIC GOAL OF THE PLANTING.
   3. THE CLIENT SHALL MAINTAIN THE PLANTING FREE FROM COMPETING WEEDS.
   4. THE CLIENT SHALL REGULARLY INSPECT THE PLANTING FOR INSECTS AND DISEASES, NOTIFYING THE LANDSCAPE ARCHITECT OF ANY NOTED OCCURRENCES. IF PESTICIDES ARE DEEMED NECESSARY, THEY SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
   5. AFTER THE ACCEPTANCE OF THE PLANTING, THE CLIENT IS RESPONSIBLE FOR CORRECTING ANY SETTLING OF THE PLANTING BEDS.
   6. AFTER ACCEPTANCE, THE CLIENT IS RESPONSIBLE FOR SETTING ANY PLANTS WHICH ARE HEAVED OUT OF THE GROUND IN WHOLE OR IN PART BY CLIMATE CHANGES.
   7. UNSATISFACTORY PERFORMANCE OF THE PERENNIALS AND GROUNDCOVERS NOTED BY THE CLIENT AFTER ACCEPTANCE OF THE PLANTING SHOULD IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.

3.03 WARRANTY

ALL PLANTS WILL BE GUARANTEED TO BE TRUE TO NAME AS LABELED AND FREE FROM INSECTS, DISEASES, AND MECHANICAL DAMAGES WHEN DELIVERED TO THE SITE. ALL PLANTS WILL BE GUARANTEED TO RESUME ACTIVE GROWTH IN THE APPROPRIATE SEASON AND TO SURVIVE FOR A MINIMUM OF ONE YEAR AFTER ACCEPTANCE BY THE CLIENT, PROVIDED THE RECOMMENDED MAINTENANCE PROCEDURES ARE FOLLOWED BY THE CLIENT. MAINTENANCE INCLUDES, BUT IS NOT LIMITED TO WATERING, FERTILIZING, MULCHING, PRUNING, PROTECTING FROM UNSEASONABLE WEATHER AND ALL OTHER NORMAL CULTURAL PRACTICES.

END OF SECTION 0003

SECTION 00005

SODDING

PART 1 GENERAL

1.01 DESCRIPTION

A. PROVIDE SODDED LAWNS AS SHOWN AND SPECIFIED. THE WORK INCLUDES:
   1. SOIL PREPARATION.
   2. SODDING LAWNS.

B. RELATED WORK:
   1. SECTION 02200: EARTHWORK.
   2. SECTION 00001: SEEDING.
   3. SECTION 00002: TREES AND SHRUB PLANTING.
   4. SECTION 00003: PERENNIAL, ORNAMENTAL GRASS, GROUNDCOVER PLANTING

1.02 QUALITY ASSURANCE

A. COMPLY WITH SECTION 00001 REQUIREMENTS.

B. SOD: COMPLY WITH AMERICAN SOD PRODUCERS ASSOCIATION (ASPA) CLASSES OF SOD MATERIALS.

1.03 SUBMITTALS

A. SUBMIT SOD GROWER'S CERTIFICATION OF GRASS SPECIES. IDENTIFY SOURCE LOCATION.

1.04 DELIVERY, STORAGE, AND HANDLING

A. CUT, DELIVER AND INSTALL SOD WITHIN A 24-HOUR PERIOD.
   1. DO NOT HARVEST OR TRANSPORT SOD WHEN MOISTURE CONTENT MAY ADVERSELY AFFECT SOD SURVIVAL.
   2. PROTECT SOD FROM DEHYDRATION PRIOR TO INSTALLATION.

1.05 PROJECT CONDITIONS

A. WORK NOTIFICATION: NOTIFY OWNER'S REPRESENTATIVE AT LEAST FIVE (5) WORKING DAYS PRIOR TO START OF SODDING OPERATIONS.

B. PROTECT EXISTING UTILITIES, PAVING, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SODDING OPERATIONS.

C. PROVIDE HOSE AND LAWN WATERING EQUIPMENT AS REQUIRED. OWNER TO PROVIDE WATER ON SITE.

1.06 WARRANTY

A. DISCLAIMER - ACTS OF GOD AND OTHER CONDITIONS BEYOND THE LANDSCAPE CONTRACTOR'S CONTROL SUCH AS VANDALISM SHALL NOT BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR. ANY RE-SODDING OR RE-GRADING CONTRIBUTED TO THIS MUST BE AN ADDITION TO THE CONTRACT AMOUNT.

PART 2 PRODUCTS

2.01 MATERIALS

A. SOD: TO BE HARVESTED FROM LOCAL SOD NURSERY AND UNLESS OTHERWISE INDICATED TO BE A(5) FIVE WAY MINIMUM BLUEGRASS BLEND. (FIVE VARIETIES OF BLUEGRASS)

B. PROVIDE WELL-ROOTED, HEALTHY SOD. PROVIDE SOD UNIFORM IN COLOR, LEAF TEXTURE, DENSITY AND DEVELOPMENT WHEN PLANTED.
   1. FURNISH SOD UNIFORMLY MACHINE-STRIPPED FROM 3/4" - 1 1/2" THICK WITH CLEAN CUT EDGES.

C. FERTILIZER:
   1. GRANULAR, NON-BURNING PRODUCT COMPOSED OF NOT LESS THAN 50% ORGANIC SLOW ACTING, GUARANTEED ANALYSIS PROFESSIONAL FERTILIZER.
   2. STARTER FERTILIZER CONTAINING 5% NITROGEN, 10% PHOSPHORIC ACID AND 10% POTASH BY WEIGHT, OR ACCORDING TO SPECIAL PROVISIONS.

D. WATER: FREE OF SUBSTANCE HARMFUL TO SOD GROWTH. HOSES OR OTHER METHODS OF TRANSPORTATION FURNISHED BY CONTRACTOR. WATER WILL BE PROVIDED BY THE OWNER ON SITE.

PART 3 EXECUTION

3.01 INSPECTION

A. EXAMINE FINISH SURFACES, GRADES, TOPSOIL QUALITY, AND DEPTH. DO NOT START SODDING WORK UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.

3.02 PREPARATION

A. LIMIT PREPARATION TO AREAS WHICH WILL BE IMMEDIATELY SODDED.

B. ROTOTILL TOPSOIL OF LAWN AREAS TO MINIMUM DEPTH OF 3", IF COMPACTED. REMOVE STONES OVER 1" IN ANY DIMENSION, STICKS, ROOTS, RUBBISH, AND EXTRANEOUS MATTER.

D. APPLY FERTILIZER AT THE RATE EQUAL TO 1.0 LB. OF ACTUAL NITROGEN PER 1,000 SQ. FT. (220 LBS./ACRE). APPLY FERTILIZER BY MECHANICAL ROTARY OR DROP TYPE DISTRIBUTOR: THOROUGHLY AND EVENLY INCORPORATE IT INTO THE SOIL TO A DEPTH OF 3" BY DISKING OR OTHER APPROVED METHODS. FERTILIZE AREAS INACCESSIBLE TO POWER EQUIPMENT WITH HAND TOOLS AND INCORPORATE IT INTO SOIL.

E. GRADE LAWN AREAS TO SMOOTH, FREE-DRAINING AND EVEN SURFACE WITH A LOOSE, UNIFORMLY FINE TEXTURE.

F. RESTORE PREPARED AREAS TO SPECIFIED CONDITION IF ERODED, SETTLED, OR OTHER WISE DISTURBED AFTER FINE GRADING AND PRIOR TO SODDING.

3.03 INSTALLATION

A. TIME OF INSTALLATION: THE ACCEPTABLE TIME TO INSTALL SOD AND BE CONSIDERED 'IN SEASON' ARE AS FOLLOWS.
   1. SPRING - FROM THE TIME THE SOIL IS WORKABLE AND SOD IS BEING HARVESTED, UNTIL JUNE 15TH.
   2. FALL - FROM AUGUST 15TH TO NOVEMBER 1ST.

ALL OTHER TIMES ARE CONSIDERED 'OUT OF SEASON' AND ARE NOT ACCEPTABLE TO INSTALL SOD AT THIS TIME WITHOUT APPROVAL OF LANDSCAPE ARCHITECT (LA) AND WITH THE ADDITIONAL CONDITIONS AS FOLLOWS:
   1. JUNE 16TH TO AUGUST 14TH
      A. SOD TO BE IRRIGATED BY AUTOMATIC SPRINKLER SYSTEM OR
      B. SOD TO BE IRRIGATED BY MANUAL MEANS WITH SUFFICIENT QUANTITIES OF HOSE AND SPRINKLER HEADS SO AS TO KEEP SOD LUSH AND HEALTHY UNTIL TIME OF KNITTING AND MOWING MAINTENANCE HAS BEGUN. WATERING TO BE MONITORED DAILEY.
   2. AFTER NOVEMBER 1ST. SOD MAY ONLY BE INSTALLED WITH (LA) APPROVAL AND MILD TEMPERATURES / CONDITIONS EXIST. SOD MAY NOT BE INSTALLED ON FROZEN GROUND AND UNTIL FINAL (FINE) GRADING AND GROUND PREPARATION HAS BEEN APPROVED FOR SOD INSTALLATION BY LANDSCAPE ARCHITECT.

B. SODDING:
   1. LAY SOD TO FORM A SOLID MASS WITH TIGHTLY-FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS. DO NOT OVERLAY EDGES. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES. REMOVE EXCESS SOD TO AVOID SMOTHERING OF ADJACENT GRASS. PROVIDE SOD PAD TOP FLUSH WITH ADJACENT CURBS, SIDEWALKS, DRAINS, AND SEEDED AREAS.
   2. INSTALL INITIAL ROW OF SOD IN A STRAIGHT LINE, BEGINNING AT BOTTOM OF SLOPES, PERPENDICULAR TO DIRECTION OF THE SLOPED AREA. PLACE SUBSEQUENT ROWS PARALLEL TO AND LIGHTLY AGAINST PREVIOUSLY INSTALLED ROW.
   3. TAMP OR ROLL WITH ROLLER TO ENSURE CONTACT WITH SUB- GRADE SOIL.
   4. WATER SOD THOROUGHLY IMMEDIATELY AFTER LAYING.
   5. STAKE SOD ON SLOPES OVER 2:1 TO ANCHOR.
   6. SOD INDICATED AREAS WITHIN CONTRACT LIMITS. AREAS OUTSIDE CONTRACT LIMITS DISTURBED AS A RESULT OF CONSTRUCTION OPERATIONS ARE TO BE CHARGED ACCORDING TO SIZE OF AREA.

3.04 MAINTENANCE

A. MAINTENANCE OF INSTALLED AND ACCEPTED SODDED LAWNS WILL BE PERFORMED BY THE OWNER.

3.05 ACCEPTANCE

A. SODDED AREAS WILL BE INSPECTED AT COMPLETION OF INSTALLATION AND ACCEPTED SUBJECT TO COMPLIANCE WITH SPECIFIED MATERIALS AND INSTALLATION REQUIREMENTS.

B. INSPECTION TO DETERMINE ACCEPTANCE OF SODDED LAWNS WILL BE MADE BY THE OWNER'S REPRESENTATIVE, UPON CONTRACTOR'S REQUEST.
   1. SODDED AREAS WILL BE ACCEPTABLE PROVIDED ALL REQUIREMENTS HAVE BEEN COMPLIED WITH, AND A HEALTHY, EVEN-COLORED VIABLE LAWN IS PROVIDED.

C. SECTIONS OF THE WORK MAY BE ACCEPTED WHEN COMPLETE UPON AGREEMENT OF THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR.

D. UPON ACCEPTANCE, THE OWNER WILL ASSUME LAWN MAINTENANCE.

3.06 CLEANING

A. PERFORM CLEANING DURING INSTALLATION OF THE WORK AND UPON COMPLETION OF THE WORK. REMOVE FROM SITE ALL EXCESS MATERIALS, DEBRIS, AND EQUIPMENT. REPAIR DAMAGE RESULTING FROM SODDING OPERATIONS.

END OF SECTION 00005

END

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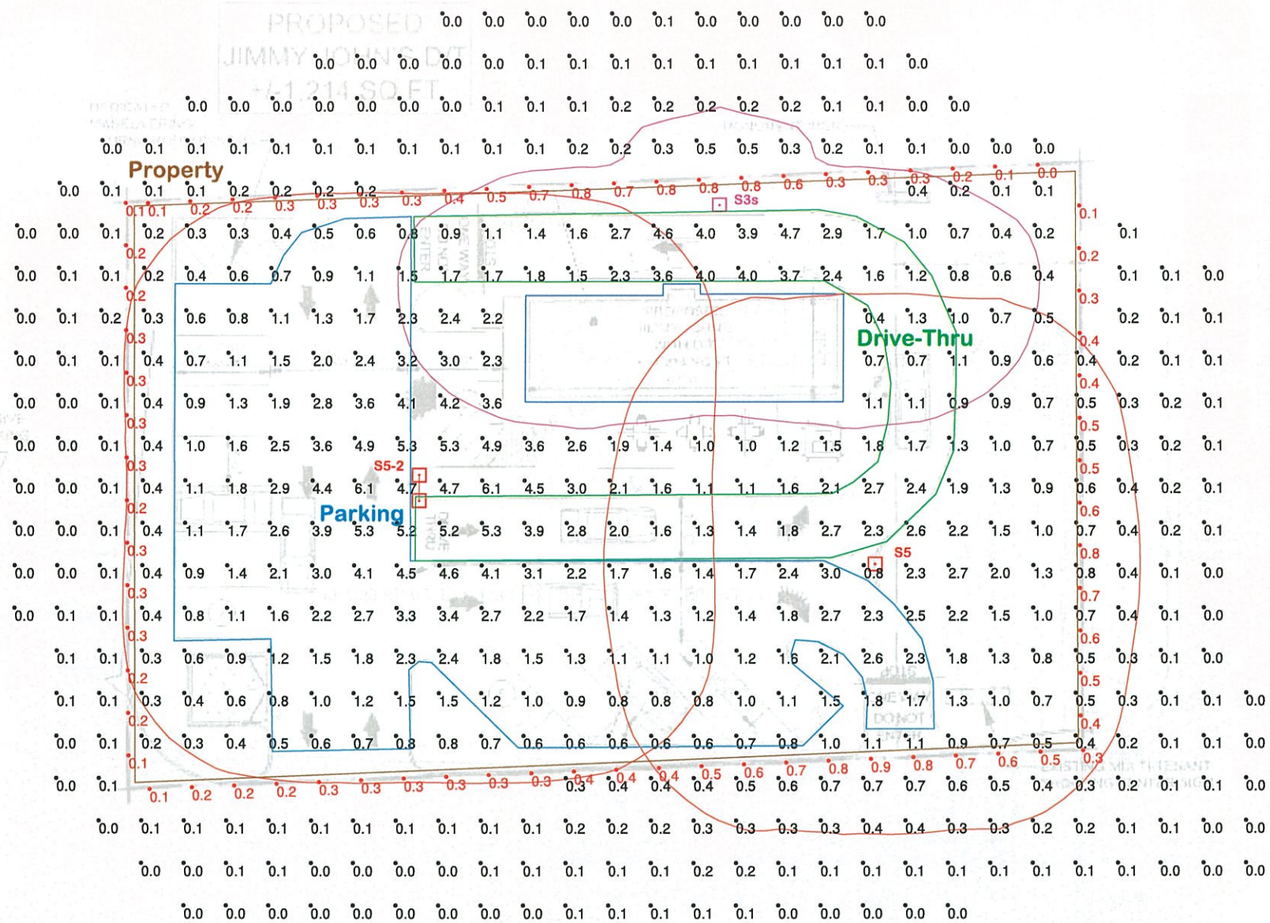
REVISIONS 04-11-22

DATE 03-07-22

SCALE AS SHOWN

DRAWN PAC



N

1 CONCEPTUAL SITE PLAN SP16

Note:
Refer to attached Light Fixture Cut-Sheet for additional information.

Luminaire Data - DB Lighting Consultation

Label	Qty	Symbol	[MANUFAC]	Description	LLF	Arr. Watts	Arr. Lum. Lumens	Mounting Height
S5-2	1		SIGNIFY HADCO	TVPR-48-G1-7-5-740	0.850	211.9202	24782	15
S5	1		SIGNIFY HADCO	TVPR-48-G1-7-5-740	0.850	105.9601	12381	15
S3s	1		SIGNIFY HADCO	TVPR-48-G1-7-3WH-740	0.850	105.9601	9419	15

Calculation Values - DB Lighting Consultation

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
All Values Project Area	Illuminance	Fc	0.96	6.1	0.0	N.A.	N.A.
Property Line East	Illuminance	Fc	0.46	0.8	0.1	4.60	8.00
Property Line North	Illuminance	Fc	0.41	0.8	0.0	N.A.	N.A.
Property Line South	Illuminance	Fc	0.44	0.9	0.1	4.40	9.00
Property Line West	Illuminance	Fc	0.24	0.3	0.1	2.40	3.00
Drive-Thru	Illuminance	Fc	2.38	5.3	0.7	3.40	7.57
Parking	Illuminance	Fc	1.96	6.1	0.6	3.27	10.17
Property	Illuminance	Fc	1.72	6.1	0.1	17.20	61.00

NOTES:
1. The calculated results of this lighting simulation represent a prediction of system performance and are not guaranteed.
2. Actual measured results may vary from the anticipated performance and are subject to means and conditions which are beyond the control of DB Lighting Consultation.
3. Illumination values shown (in foot-candles) are horizontal at grade level based on Mounting Height 15'-0"
4. Calculation points are on an 8' x 8' spacing
5. Per fixture isolines shown represent 0.25 fc and is for reference only

Not to Scale

DB Lighting Consultation (DBLC) assumes no responsibility for any errors in the IES files, background images, or other information provided to DBLC to be used in these calculations.
Actual or measured results may vary due to manufacturer tolerances, component malfunctions, obstructions, varying surface reflectance's and other field conditions.
The owner assumes all responsibility for compliance with federal, state and/or local codes and regulations.

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Rev	Date	Comments
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..	.....	.....
..	.....	.....
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Revisions

Project Name: **Romeoville Site**

Project ID Number: 2022-221

Date: 02/22/22

24" x 36"
Page 1 of 1