Contact the Metropolitan Water Reclamation District of Greater Chicago <u>2 days</u> before starting work.

P (708) 588-4055

■ WMOJobStart@mwrd.org

DEVELOPER

EDWARDS REALTY COMPANY 14400 SOUTH JOHN HUMPHREY, SUITE 200 ORLAND PARK, ILLINOIS 60462 PHONE: (708) 923-6312

ARCHITECT

DXU ARCHITECTS 412 S WELLS STREET, 2ND FLOOR CHICAGO, ILLINOIS 60607 PHONE: (312) 955-0334

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

ORLAND PARK, T36N

SEC. 04, R12E

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

CIVIL PLAN INDEX SHEET | SHEET | SHEET DESCRIPTION C1 | COVER SHEET GN TYPICAL SECTIONS & GENERAL NOTES 2 ET EXISTING CONDITIONS 3 DEMO DEMOLITION PLAN 5 GR GRADING PLAN UT UTILITY PLAN 8-10 | SE1-SE3 | SOIL EROSION & SEDIMENT CONTROL PLANS MM MAINTENANCE & MONITORING PLAN MWRD | MWRD GENERAL NOTES S1 | SPECIFICATIONS 13 14-15 D1-D2 DETAILS **ELECTRICAL PLAN INDEX** EO.0 | ELECTRICAL NOTES, LEGEND & ABBREVIATIONS E1.0 | ELECTRICAL SITE LIGHTING PLAN

SITE IMPROVEMENT PLANS for

DOWNTOWN ORLAND PARK PARCEL H

ORLAND PARK, ILLINOIS 60462 **PROJECT NO: 4278.16**

BENCHMARK

DESCRIPTION: SEE SHEET GN FOR

BENCHMARK INFORMATION

NOTE:

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

LOCATION MAP MWRD INTERCEPTOR 42" CULVERT UNDER RR TRACKS EX. VILLAGE OF ORLAND PARK-STORM SEWER TO EX. DET. BASIN PROJECT PARK SANITARY SEWER LOCATION West 143rd Street

DRAINAGE CERTIFICATION "To the best of our knowledge and belief, the drainage of surface waters will not be changed by the construction of this waters are planned for in accordance with generally accepted engineering practices so as to reduce the liklihood of damage to adjoining properties because of the construction of this development. The development shall not adversely increase flood elevations or decrease flood conveyance capacity ILLINOIS REGISTRATION NO.: 062-052057 EXPIRATION DATE: 11/30/2025 PROFESSIONAL DESIGN FIRM NO.: 184-001157

VILLAGE OF ORLAND PARK

ENGINEERING INSPECTOR: (708) 403–5003 PUBLIC WORKS UTILITIES: (708) 403–6350

O	RIGINAL PLAN DA	ATE: FEBRUARY 7, 2025			
#	SHEET #	REMARKS	DATE		
1	ALL	PER ARCHITECT	03/11/25		
2	1	ADDED ELECTRICAL PLAN INDEX	06/25/25		
3	ALL	PER VILLAGE	07/21/25		
4	ALL	PER ARCHITECT	07/24/25		
5	ALL	PER VILLAGE REVIEW #1	08/22/25		

(SIGNATURE FOR CIVIL PLANS ONLY 08/22/2025 MICHAEL MONDUS ILLINOIS REGISTRATION NO.: 062-052057 EXPIRATION DATE: 11/30/2025 PROFESSIONAL DESIGN FIRM NO.: 184-001157 THESE PLANS OR ANY PART THEREOF SHALL BE CONSIDERED VOID WITHOUT

02/07/25 4278.16 SHEET

FILENAME:

DATE:

4278.16TITLE.DGN

OF 17

GENERAL NOTES

- 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, 2022 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, 8TH EDITION UPDATED 2020, 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

1. REFERENCED CODES

- 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
- 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
- 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
- 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.

22 EINAL ACCEDTANCE

- A. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF TWELVE (12) MONTHS 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 OF MAINTENANCE BOND IN THE AMOUNT OF 10% OF THE COST OF IMPROVEMENTS.
- B. BEFORE ACCEPTANCE BY THE OWNER AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED BY THE OWNER OR HIS REPRESENTATIVE. FINAL PAYMENT WILL BE MADE AFTER ALL THE CONTRACTOR'S WORK HAS BEEN APPROVED AND
- 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 BI IIE 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.)
- . 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
- 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.

CURB. TRENCH SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL.

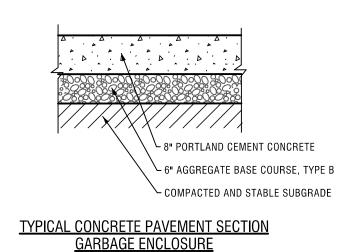
25. IT SHALL BE UNDERSTOOD THAT NEITHER THE MUNICIPALITY, ITS OFFICIALS, CONSULTANTS, NOR ITS EMPLOYEES ARE AGENTS OF OR REPRESENTATIVES OF THE OWNER. NONE-THE-LESS, THE MUNICIPALITY, ITS OFFICIALS AND EMPLOYEES ARE TO BE PROVIDED SAFE ACCESS TO ALL PHASES OF ALL WORK PERFORMED ON THE PROJECT SITE TO 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.

1 2 3 4

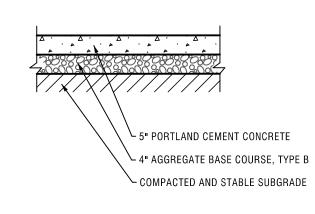
YPICAL ASPHALT PAVEMENT SECTION

N.T.S.

1.5" HMA SURFACE COURSE, MIX "C", N50
2.25" HMA BINDER COURSE, IL 19.0, N50
3 10" AGGREGATE BASE COURSE, TYPE B
4 COMPACTED AND STABLE SUBGRADE

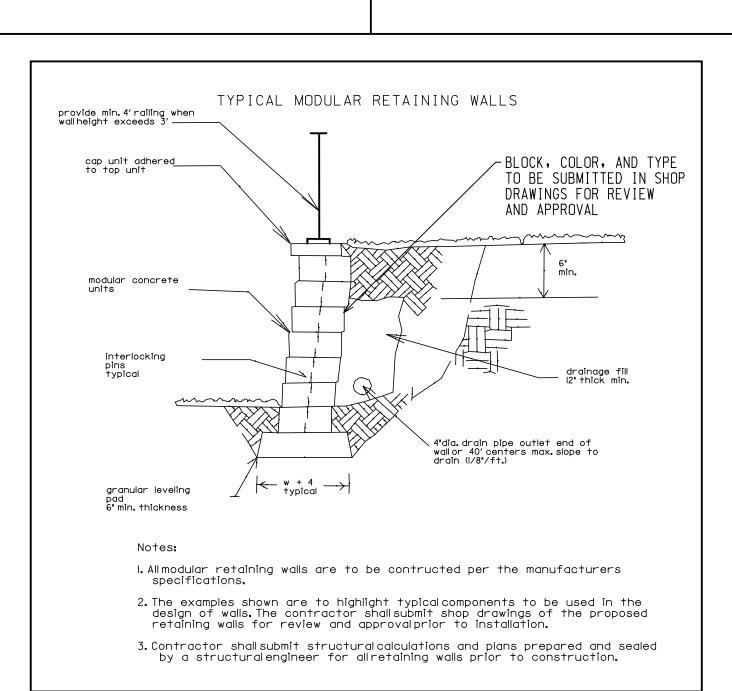


N.T.S.



TYPICAL SIDEWALK/PEDESTRIAN PATH SECTION

N.T.S.



EXISTING	DESCRIPTION	PROPOSED
->	DRAIN TILE	
-))-	STORM SEWER	->>
->	SANITARY SEWER	->>
->>	SANITARY TRUNK SEWER	*
-W	WATER MAIN (WITH SIZE)	-
	PIPE TRENCH BACKFILL	
GG	GAS MAIN	—G———G—
тт	TELEPHONE LINES	— TT-
-ЕЕ-	ELECTRIC LINE	—EE-
×	FENCE	×
	RIGHT-OF-WAY	
	EASEMENT	
	PROPERTY LINE	
	SETBACK LINE	
	CENTERLINE	
680	CONTOUR	680
©	SANITARY MANHOLE	•
0	STORM MANHOLE	•
Ø	CATCH BASIN	•
	INLET	
q	FIRE HYDRANT	<
	PRESSURE CONNECTION	•
	PIPE REDUCER	•
Θ	VALVE AND VAULT, VALVE	•
◁	FLARED END SECTION	•
¤	STREET LIGHT	×
-0-	UTILITY POLE	•
A	CONTROL POINT	
þ	SIGN	4
XXX . XX	SPOT ELEVATION	××ו××
Φ	SOIL BORING	•
	OVERLAND FLOW ROUTE	-
	DRAINAGE SLOPE	~~ OR →
	GUARDRAIL	
<u> </u>	WATER'S EDGE	
	CONCRETE	
	REVERSE PITCH CURB	111111111111111111111111111111111111111
	TREE, FIR TREE, BUSH, &	XX
	PROPOSED TREE TO REMOVE	

LEGEND

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

	<u>PERMITS</u>		
DESCRIPTION	LOG NO.	PERMIT NO.	DATE ISSUED
VILLAGE OF ORLAND PARK			
MWRD	2025-0218		

<u>BENCHMARK</u>

ELEVATION = 695.18

SOURCE BENCHMARK:
BRASS MONUMENT AT THE CENTERLINE OF 143RD STREET AND LAGRANGE ROAD INTERSECTION.
ELEVATION = 703.94 NAVD 88

SITE BENCHMARK #1: NORTHEAST BOLT OF FIRE HYDRANT IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF MAIN STREET AND 143RD STREET. ELEVATION = 717.38

SITE BENCHMARK #2: SOUTHEAST BOLT OF FIRE HYDRANT AT THE SOUTHEAST CORNER OF 142ND STREET AND CRESENT PARK CIRCLE. ELEVATION = 700.24

SITE BENCHMARK #3:
SQUARE WITH CROSS SET ON SOUTHEAST CORNER OF TRAFFIC LIGHT CONTROLBOX AT THE SOUTHWEST CORNER OF 142ND STREET
AND ROUTE 45.
ELEVATION = 704.32

SITE BENCHMARK #4:
SQUARE WITH CROSS AT THE SOUTHWEST CORNER OF V.O.P. LIGHT CONTROL BOX AT THE SOUTHWEST CORNER OF THE METRA
PARKING LOT.
ELEVATION = 698.23

SITE BENCHMARK #5: SOUTHWEST BOLT OF THE FIRST FIRE HYDRANT NORTH OF 142ND STREET ON THE WEST SIDE OF ROUTE 45.

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TYPICAL SECTION DOWNTOWN PAI

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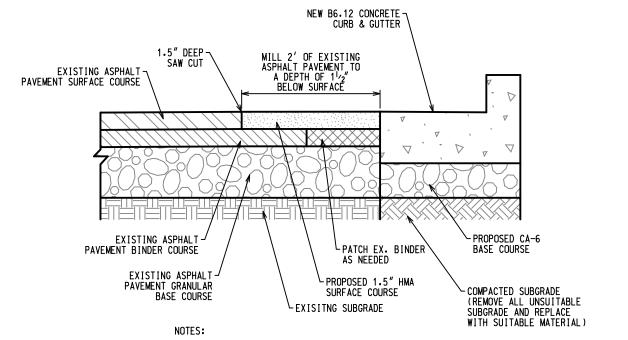
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SHEET

OF 17



NOTES:

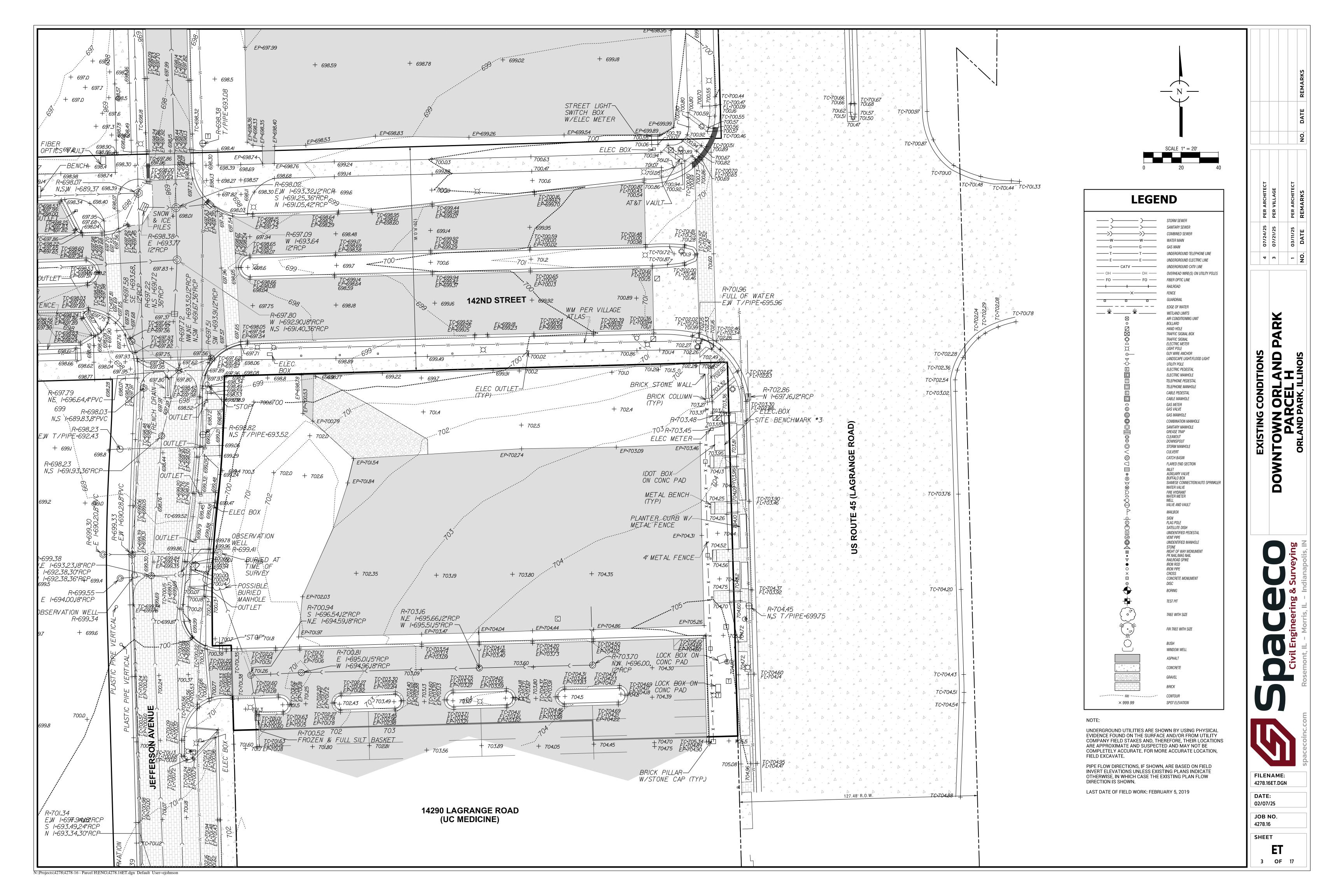
1. EXISTING PAVEMENT SECTION IS SHOWN FOR REFERENCE ONLY.

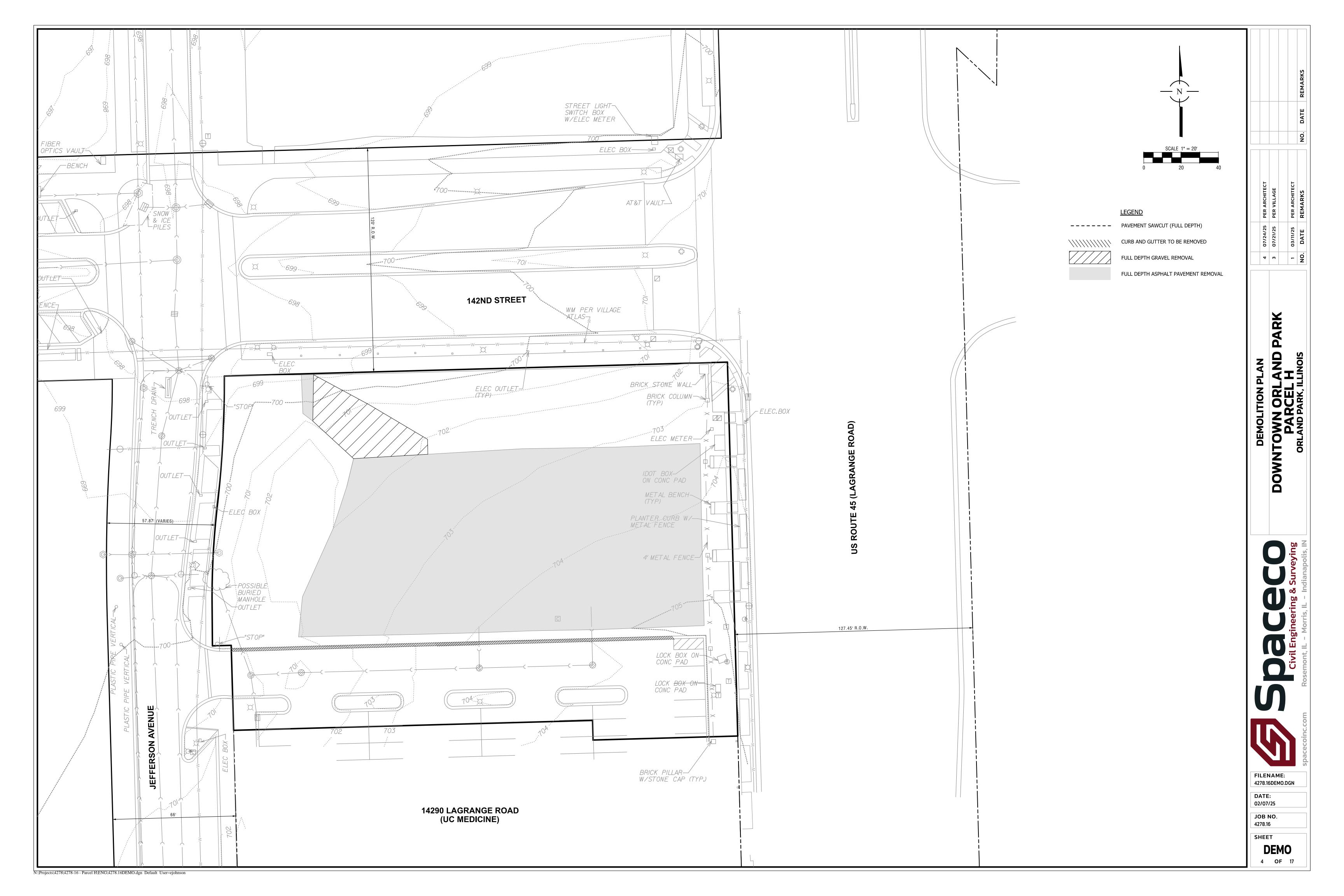
2. ALL ASPHALT PAVEMENT MILLINGS SHALL BE DISPOSED OF BY THE CONTRACTOR.
 3. BITUMINOUS TACK COAT SHALL BE APPLIED AT A RATE OF 0.1 GALLONS PER SQUARE YARD TO BOTH EXISTING AND PROPOSED ASPHALT BINDER COURSE PRIOR TO NEW HMA SURFACE COURSE INSTALLATION.

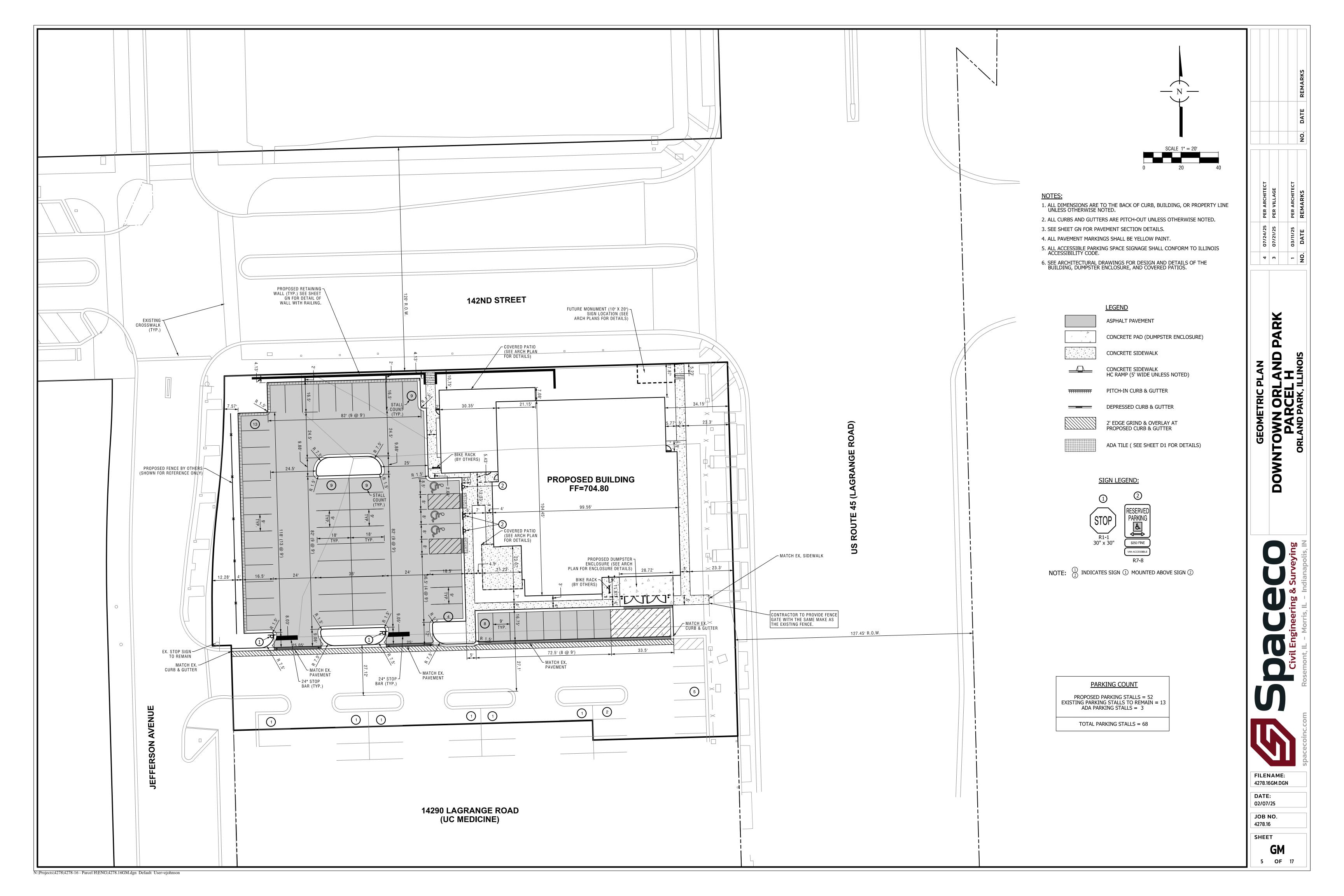
PAVEMENT PATCHING

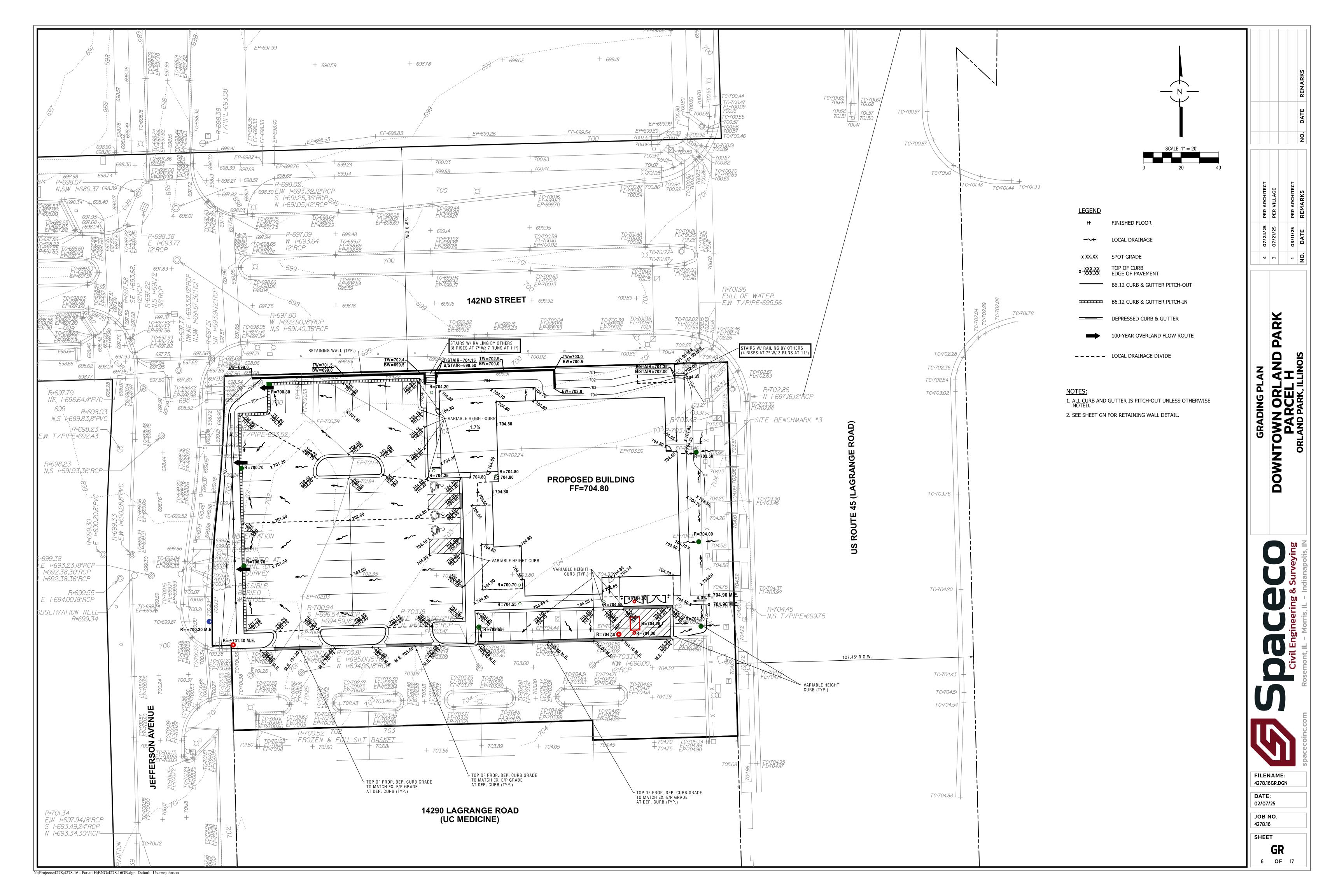
AT NEW CURB & GUTTER

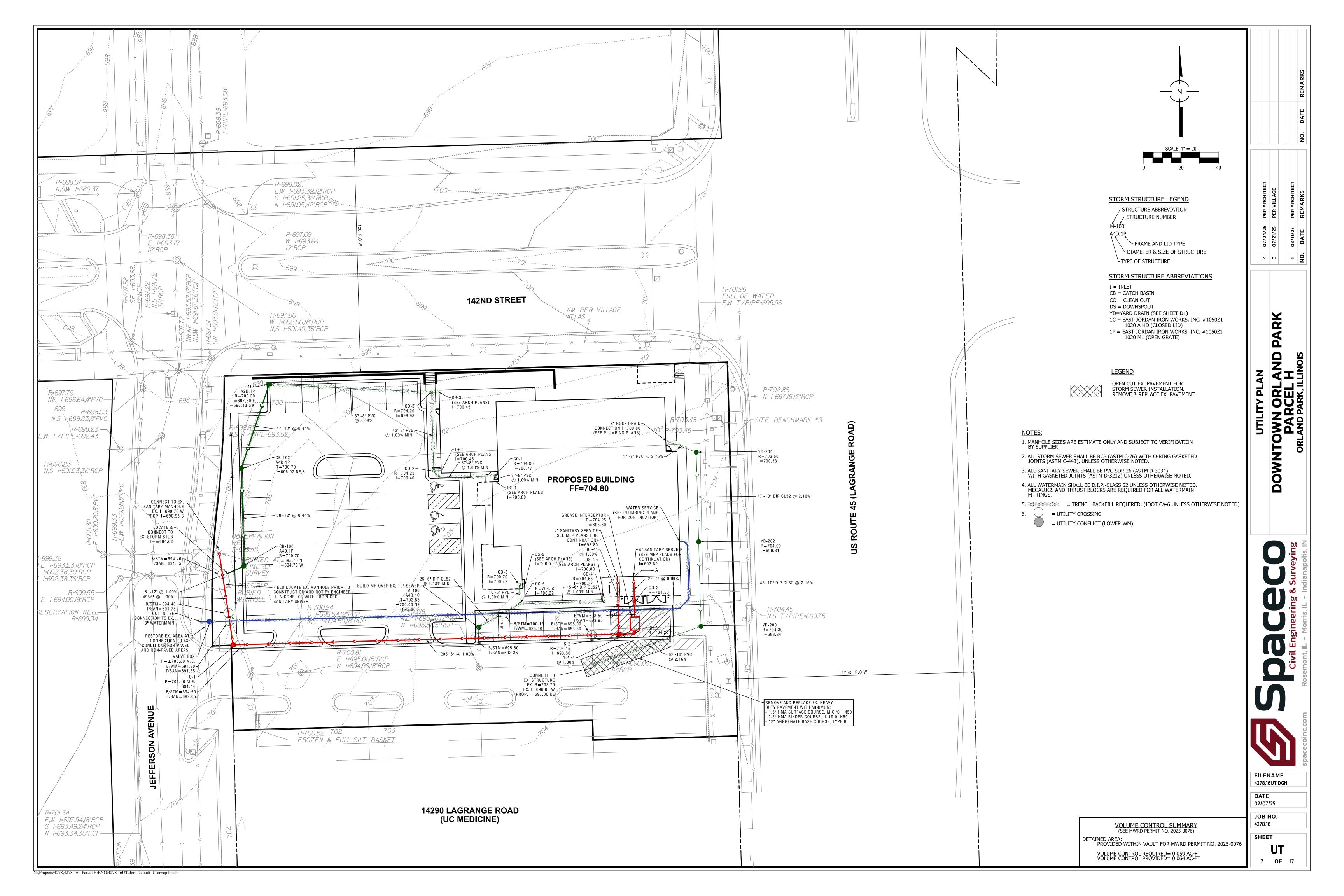
NOT TO SCALE











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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 amanded if it proves to be ineffective in eliminating or significantly minimizing pollutants, or in
otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with
 construction site activity. In addition, the SWPPP shall be amended to identify any new contractor and/or
 subcontractor that will implement a measure of the SWPPP.
All storm water pollution prevention plans and all completed inspection forms/reports required under the
General NPDES Permit No. ILR10 are considered reports that shall be available to the public within 30 days
upon request. If a storm water pollution prevention plan or inspection form/report cannot be provided.
the permittee shall respond to the request within 30 days with a statement that explains why the document
cannot be provided. However, the permittee may claim any portion of a storm water pollution prevention plan
 as confidential in accordance with 40 CFR Part 2.
1. SITE DESCRIPTION
A. The following is a description of the nature of the construction activity: Construction of a restaurant building with
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 and grade site
 4) Install storm sewer, sanitary service, water service and associated inlet protection
   Temporarily stabilize all areas including lots that have reached mass grade
 6) Install parking lot and permeable pavers
8) Install buildings
9) 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 <u>1.21</u> acres. Construction activity will disturb
 approximately 0.94 acres of the site.
 D. 1) An estimated runoff coefficient of the site after construction activities are completed is <u>0.90</u>.
   2) Existing data describing the soil or quality of any discharge from the site is included in
 E. Refer to Sheets <u>ET.GR.SE3</u> 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;
   7) surface waters (including wetlands); and,
   8) locations where storm water is discharged to a surface water.
F. 1) The name of the receiving water(s) is(are): <u>Village of Orland Park Storm Sewer. Ex. Detention Basin to North.</u>
2) The name of the ultimate receiving water is: <u>Orland Lake. Des Plaines River.</u>
3) The extent of wetland acreage at the site is: <u>0.00 acres.</u>
 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

    solvents

    deteraents

 - raw materials (e.g., bagged portland cement)
  - construction debris
  - landscape waste
  - concrete and concrete trucks
 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 Orland Park
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
   - 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 initialization 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
        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

    inlet protection
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The following requirements apply to protecting storm drain inlets: - Clean, or remove and replace, the protection measures as sediment accumulates, the filter becomes clogged,	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. P. Wash Water Control
and/or perfomance is compromised. Where there is evidence of sediment accumulation adjacent to the inlet protection measure, remove the deposited sediment by the end of the same business day in which it is found or by the end of the following business day if removal by the same business day is not feasible.	Wash water control should be implemented on site as necessary. Minimize the discharge of pollutants fromequipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
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.	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
 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: storm sewers 	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.
- storm sewers - permeable pavers	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.
 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, 	Silt fence: Silt fences should be inspected regularly for undercutting where the fence meets the ground, overtopping, and tears along the length of the fence. Deficiencies should be repaired immediately. Remove accumulated sediments from the fence base when the sediment reaches one-half the fence height. During final stabilization, properly dispose of any sediment that has accumulated on the silt fence. Alternative sediment control measures should be considered for areas where silt fence continually fails.
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). 3) For any site which discharges directly to an impaired water listed for suspended solids, turbidity, or siltation, the SWPPP must be designed for a	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.
storm event equal to or greater than a 25-year 24-hour rainfall event. If required by federal regulations or the Illinois Urban Manual, the SWPPP must adhere to a more restrictive design criterion. E. Waste Management	Temporary sediment traps: Temporary sediment traps should be inspected after each period of significant rainfall. Remove sediment and resto 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 prop
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	4. INSPECTIONS The Permittee (or their authorized representative) will be responsible for conducting site inspections in compliance with the ILR10 NPDES Perm After each inspection, a report should be prepared by the qualified personnel who performed the inspection. The inspection report should
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.	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.
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.	Inspections may be reduced to once per month when construction activities have ceased due to frozen conditions. Weekly inspections will recommence when construction activites are conducted, or if there is 0.5 inches or greater rain event, or a discharge due to snowmelt occurs.
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	Inspections must observe the structural control measures, in addition to the other locations mentioned in the SWPPP. Areas that are inaccessible during inspections due to flooding or other unsafe conditions must be inspected within 72 hours of becoming accessible. Each inspection should include the following components:
a reasonable distance from a storm water drainage inlet or watercourse, and should be located at least 10 feet behind the curb, if the washout area is adjacent to a paved road. A stabilized entrance that meets Illinois Urban Manual standards should be installed at each washout area. The containment facilities should be of sufficient volume to completely contain all liquid and concrete waste materials including enough capacity	A. All areas where stormwater typically flows within the site must be inspected for evidence of, or the potential for, pollutants entering the drainage system. All locations where stabilization efforts have been implemented must be observed to ensure that they are still stabilized.
for anticipated levels of rainwater. The dried concrete waste material should be picked up and disposed of properly when 66% capacity is reached. Hardened concrete can be properly recycled and used again on site (as approved by the Engineer) or hauled off site to an appropriate landfill. If equipment and vehicles are washed on-site, the wash water must be treated in a sediment basin or alternative control providing equivalent or better treatment prior to discharge. If there are chemicals and/or petroleum products stored on-site in containers with a storage of 55 gallons or more,	B. 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
the containers must be stored a minimum of 50 feet from the receiving waters, constructed or natural site drainage features, and storm drain inlets. If this is infeasible dueto site constraints, the containers must be stored as far away as allowed and the SWPPP must document the reason why the 50-foot setback is infeasible and how the containers will be stored.	non-storm water discharge sources should also be inspected. C. For sites discharging dewatering water, you must conduct an inspection during the discharge, once per day on which the discharge occurs and record the following in a report within 24 hours of completing the inspection:
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	- The inspection date - The names and titles of personnel performing the inspection
described above. H. Vehicle Storage and Maintenance	 Approximate times that the dewatering discharge began and ended on the day of inspection Estimates of the rate (in gallons per day) of discharge on the day of inspection
When not in use, construction vehicles should be stored in a designated area(s) outside of the regulatory floodplain, away from any natural or created watercourse, pond, drainage-way or storm drain. Controls should be installed to minimize the potential of runoff from the storage area(s) from reaching storm drains or water courses. Vehicle maintenance (including both routine maintenance as well as on-site repairs) should be made within a designated area(s) to prevent the migration of mechanical fluids (oil, antifreeze, etc.)into watercourses, wetlands or storm drains. Drip pans or absorbent pads should be used for all vehicle and equipment maintenance activities that involve grease, oil, solvents, or other vehicle fluids.	 Whether or not any of the following indications of pollutant discharge were observed at the point of discharge: a sediment plume, suspended solids, unusual color, presence of odor, decreased clarity, or presence of foam; and/or a visible sheen on the water surface or visible oily deposits on the bottom or shoreline of the receiving water.
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.	D. 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 implementationof any changes to the SWPPP within 7 calendar days following the inspection.
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.	E. 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 3 years from the date that permit coverage expires or is terminated.
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. Bermed-off storage areas are an acceptable control measure to prevent contamination of storm water. MSDS should be available for referencing clean-up procedures. Any release of chemicals/contaminants should be immediately cleaned up and disposed of properly. Contractors should immediately report all spills	The report shall be signed in accordance with Part VI.G. (Signatory Requirements) of the ILR10 NPDES Permit. Any flooding or other unsafe conditions that delay inspections must be documented in the inspection report. F. The Permittee shall notify the appropriate agency field operations section office by e-mail at:epa.swnoncomp@illinois.gov, telephone or fax
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	within 24 hours of any incidence of noncompliance for any violation of the storm water pollution prevention plan observed during any inspection conducted or forviolation 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 inspectionconducted, including those not required by the SWPPP. Submission should be on forms provided by IEPAand include specific information on the cause of non-compliance, actions while were taken to prevent any further causes of non-compliance, and a statement detailing any environmental impact, which may have resulted
Local and State recommended methods. The following good housekeeping practices should be followed on site during the construction project:	G. 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.
 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 	H. 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:
containers and adequately protected from the environment. - Products should be kept in their original containers with the original manufacturer's label.	Illinois Environmental Protection Agency Division of Water Pollution Control Compliance Assurance Section 1021 North Grand Avenue East
 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. 	Post Office Box 19276 Springfield, Illinois 62794-9276 5. CORRECTIVE ACTIONS
 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. 	You must take corrective action to address any of the following conditions identified at your site: - A storm water control needs repair or replacement
J. Management of Portable Sanitary Stations To the extent practicable, portable sanitary stations should be located in an area that does not drain to any protected natural areas, Waters of the State, or storm water structures and should be anchored to the ground to prevent from tipping over. Portable sanitary stations located on impervious surfaces	 A storm water control necessary to comply with the requirements of this permit was never installed, or was installed incorrectly Your discharges are causing an exceedance of applicable water quality standards
should be placed on top of a secondary containment device, or be surrounded by a control device (e.g., gravel-bag berm). The contractor should not create or allow unsanitary conditions. Sanitary waste should be disposed of in accordance with applicable State and/or Local regulations. K. Spill Prevention and Clean-Up Procedures	 A prohibited discharge has occurred. Corrective Actions shall be completed as soon as possible and documented within 7 days in an Inspection Report or report ofnoncompliance. If infeasible to complete the installation or repair within 7 calendar days, you must document in your records why it is infeasible to complete the
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.	installation or repair within the 7-day timeframe and document your schedule for installing the storm water control(s) and making it operational as soon as feasible after the 7-day timeframe. In the event that maintenance is required for the same storm water control at the same location 3 or more times, the control shall berepaired in
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	manner that prevents continued failure to the extent feasible, and you must document the condition and how it was repaired in your records. Alternatively, you must document in your records why the specific recurrence of this same issue should continue to be addressed as a routine maintenance fix. 6. NON-STORM WATER DISCHARGES
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	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:
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	 Fire fighting activities Fire hydrant flushings Water used to wash vehicles where detergents are not used Water used to control dust
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.	 Potable water sources including uncontaminated waterline flushings Landscape irrigation drainages Routine external building washdown which does not use detergents Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless spilled materials have been removed) and where detergents have not been used.
 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, 	- Uncontaminated air conditioning condensate - Springs - Irrigation ditches - Uncontaminated ground water
 and should not be discharged to the storm sewer or waterbody. Any chemical container with a storage of 55 gallons or more must be stored a minimum of 50 feet from any receiving waters, constructed or natural site drainage features, and storm drain inlets. 	 Foundation or footing drains where flows are not contaminated with process materials such as solvents PROHIBITED NON-STORM WATER DISCHARGES
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). Inlet hoses should be placed in a stabilized sump pit or floated at the surface of	 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
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.	 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
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)	 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. RETENTION OF RECORDS
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.	A. The permittee shall retain copies of storm water pollution prevention plans and all reports and notices required by this permit, records of all data used to complete the Notice of Intent to be covered by this permit and the Agency Notice of Permit Coverage letter for a period of at least 3 years from the date that the permit coverage expires or is terminated. This period may be
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	extended by request of the Agency at any time. B. The permittee shall retain a copy of the storm water pollution prevention plan and any revisions to said plan required by this permit at the construction site from the date of project initiation to the date of final stabilization. Any manuals or other documents referenced
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	in the SWPPP shall also be retained at the construction site. C. The SWPPP must include a record of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated.
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, as 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

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ntenance of the controls incorporated into this project should be performed as needed to assure their continued effectiveness. This
udes prompt and effective repair and/or replacement of deficient control measures. The following is a description of procedures that
ould be used to maintain, in good and effective operating condition, erosion and sediment control measures and other
  ctive measures identified in the SESC Plan and Standard Specifications.
  control: When temporary dust control measures are used, repetitive treatment should be applied as needed to accomplish control.
 ment filter bags: Sediment filter bags should be installed on pump outlet hoses that discharge off site or to sensitive on-site areas, and
ould be placed in an area that allows for the bag to be removed without producing a sediment discharge. The bags should
nspected frequently and repaired or replaced as needed.
 fence: Silt fences should be inspected regularly for undercutting where the fence meets the ground, overtopping, and tears along the length
  fence. Deficiencies should be repaired immediately. Remove accumulated sediments from the fence base when the sediment reaches
  nalf the fence height. During final stabilization, properly dispose of any sediment that has accumulated on the silt fence.
  native sediment control measures should be considered for areas where silt fence continually fails.
 ilized construction entrance: The stabilized construction entrances should be maintained to prevent tracking of sediment onto public streets,
ntenance includes top dressing with additional stone and removing top layers of stone and sediment. The sediment tracked
o the public right-of-way should be removed immediately
nporary sediment traps: Temporary sediment traps should be inspected after each period of significant rainfall. Remove sediment and restore
trap to its original dimensions when the sediment has accumulated to one-half the design depth of the permanent pool. Place the sediment
  s removed in a designated disposal area. Check the structure for damage from erosion or piping. After all sediment-producing areas have
n permanently stabilized, remove the structure and all unstable sediment. Grade the area to blend with the adjoining areas and stabilize properly.
 Permittee (or their authorized representative) will be responsible for conducting site inspections in compliance with the ILR10 NPDES Permit.
er each inspection, a report should be prepared by the qualified personnel who performed the inspection. The inspection report should
 ections should be conducted at least once every seven calendar days and within 24 hours or by the end of the following work day,
  e end of a storm event that is 0.5 inches or greater, or equivalent snowfall.
pections may be reduced to once per month when construction activities have ceased due to frozen conditions. Weekly inspections will
ommence when construction activites are conducted, or if there is 0.5 inches or greater rain event, or a discharge due to snowmelt occurs.
 ections must observe the structural control measures, in addition to the other locations mentioned in the SWPPP. Areas that are inaccessible
 ng inspections due to flooding or other unsafe conditions must be inspected within 72 hours of becoming accessible.
 n inspection should include the following components:
 Il areas where stormwater typically flows within the site must be inspected for evidence of, or the potential for, pollutants
ering the drainage system. All locations where stabilization efforts have been implemented must be observed to ensure that
  sturbed areas and areas used for the storage of materials that are exposed to precipitation should be inspected for evidence of,
  potential for, pollutants entering the drainage system. The erosion and sediment control measures identified in the SWPPP should
  pserved to ensure that they have been installed and are operating correctly. Where discharge points are accessible, they should be
 ected to ascertain whether erosion control measures are effective in preventing significant impacts to the receiving waters.
ations where vehicles enter or exit the site should be inspected for off-site sediment tracking. All pumping operations and other potential
-storm water discharge sources should also be inspected.
  sites discharging dewatering water, you must conduct an inspection during the discharge, once per day on which the discharge
urs and record the following in a report within 24 hours of completing the inspection:
  e names and titles of personnel performing the inspection
pproximate times that the dewatering discharge began and ended on the day of inspection
 stimates of the rate (in gallons per day) of discharge on the day of inspection
hether or not any of the following indications of pollutant discharge were observed at the point of discharge:
  sediment plume, suspended solids, unusual color, presence of odor, decreased clarity, or presence of foam
ınd/or a visible sheen on the water surface or visible oily deposits on the bottom or shoreline of the receiving water.
Based on the results of the inspection, the description of potential pollutant sources identified, and the pollution prevention measures
 ribed in the SWPPP should be revised, as appropriate, as soon as practicable after the inspection. The modifications, if any, shall
vide for timely implementationof any changes to the SWPPP within 7 calendar days following the inspection.
 report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the
 ection, major observations relating to the implementation of the SWPPP, and actions taken in accordance with paragraph B. above
uld be made and retained as part of the SWPPP for at least 3 years from the date that permit coverage expires or is terminated.
report shall be signed in accordance with Part VI.G. (Signatory Requirements) of the ILR10 NPDES Permit. Any flooding or other unsafe
 ditions that delay inspections must be documented in the inspection report.
  e Permittee shall notify the appropriate agency field operations section office by e-mail at:epa.swnoncomp@illinois.gov, telephone or fax
 in 24 hours of any incidence of noncompliance for any violation of the storm water pollution prevention plan observed during any inspection
 ducted or forviolation of any condition of this permit. The Permittee should complete and submit within 5 days an
 dence of Non-Compliance" (ION) report for any violation of the SWPPP observed during an inspectionconducted, including those not required
 ne SWPPP. Submission should be on forms provided by IEPAand include specific information on the cause of non-compliance, actions which
 e taken to prevent any further causes of non-compliance, and a statement detailing any environmental impact, which may have resulted
   reports of non-compliance shall be signed by a responsible authority as defined in Part VI.G. (Signatory Requirements)
 After the initial contact has been made within the appropriate agency field operations section office, all reports of non-compliance shall
 must take corrective action to address any of the following conditions identified at your site:
storm water control needs repair or replacement
storm water control necessary to comply with the requirements of this permit was never installed, or was installed incorrectly
our discharges are causing an exceedance of applicable water quality standards
 ective Actions shall be completed as soon as possible and documented within 7 days in an Inspection Report or report ofnoncompliance. If it is
  sible to complete the installation or repair within 7 calendar days, you must document in your records why it is infeasible to complete the
  llation or repair within the 7-day timeframe and document your schedule for installing the storm water control(s) and making it operational
  e event that maintenance is required for the same storm water control at the same location 3 or more times, the control shall berepaired in a
nner that prevents continued failure to the extent feasible, and you must document the condition and how it was repaired in your records.
  natively, you must document in your records why the specific recurrence of this same issue should continue to be addressed as a routine
ept for flows from fire fighting activities, possible sources of non-storm water that may be combined with
  n water discharges associated with the proposed activity, are described below:
later used to wash vehicles where detergents are not used
  table water sources including uncontaminated waterline flushings
 outine external building washdown which does not use detergents
 evement wash waters where spills or leaks of toxic or hazardous materials have not occurred
inless spilled materials have been removed) and where detergents have not been used.
  contaminated air conditioning condensate
 oundation or footing drains where flows are not contaminated with process materials such as solvents
 ROHIBITED NON-STORM WATER DISCHARGES
 oncrete and wastewater from washout of concrete (unless managed by an appropriate control)
 astewater from washout and cleanout of stucco, paint
  ing compounds and other construction materials
 els, oils, or other pollutants used in vehicle or equipment operation and maintenance
oxic or hazardous substances from a spill or other release
  y other pollutant that could cause or tend to cause water pollution
 ution prevention measures should be implemented for non-storm water components of the discharge.
 he permittee shall retain copies of storm water pollution prevention plans and all reports and notices required by this permit,
  cords of all data used to complete the Notice of Intent to be covered by this permit and the Agency Notice of Permit Coverage
etter for a period of at least 3 years from the date that the permit coverage expires or is terminated. This period may be
  tended by request of the Agency at any time.
  e permittee shall retain a copy of the storm water pollution prevention plan and any revisions to said plan required by this permit
  the construction site from the date of project initiation to the date of final stabilization. Any manuals or other documents referenced
 the SWPPP shall also be retained at the construction site.
The SWPPP must include a record of the dates when major grading activities occur, when construction activities temporarily or permanently
ease on a portion of the site, and when stabilization measures are initiated.
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STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	(
PERMANENT SEEDING			+ <u>A</u>			*	*-			
DORMANT SEEDING	В		-							
TEMPORARY SEEDING			+ <u>C</u>			_	D			
SODDING			+ E**							
MULCHING	F									
	MIXI 30 L B KEN MIXI	ED WITH PI BS/ACRE. TUCKY BLI ED WITH PI BS/ACRE - * IF ** I	JEGRASS 9 ERENNIAL F JEGRASS 1 ERENNIAL F + STRAW N RRIGATION RRIGATION	RYEGRASS 35 LBS/ACF RYEGRASS MULCH 2 TC NEEDED DL NEEDED FC	RE DNS/ACRE. JRING JUNE DR 2 TO 3 V		WHEA 150 L SOD STRA' '. ER APPLYI	AT OR CERE BS/ACRE. W MULCH 2	0 LBS/ACR AL RYE 2 TONS/ACF	
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	PERMIT #:	ILR10				DA	ίΤΕ.			
	CONTRACTO	OR SIGNATU	RE			TE	LEPHONE NU	JMBER		
	PRINTED NA	AME & TITLE								
	NAME OF CO	ONTRACTING	G FIRM							
	STREET ADI	DRESS								
	CITY, STAT	E, ZIP CODE								
	TRADE/ RES	PONSIBILIT	ES:							
_	NOTE: ALL CONTR/ STATEMENT SWPPP.	ACTORS PEF AS ILLUSTF	RFORMING W RATED ABOVI	ORK ON THIS E. THE SIGNE	SITE ARE R D STATEMEI	EQUIRED TO NTS WILL BE	SIGN A CON MAINTAINE	ITRACTOR CI D ON THE SI	ERTIFICATION TE WITH THE	N :
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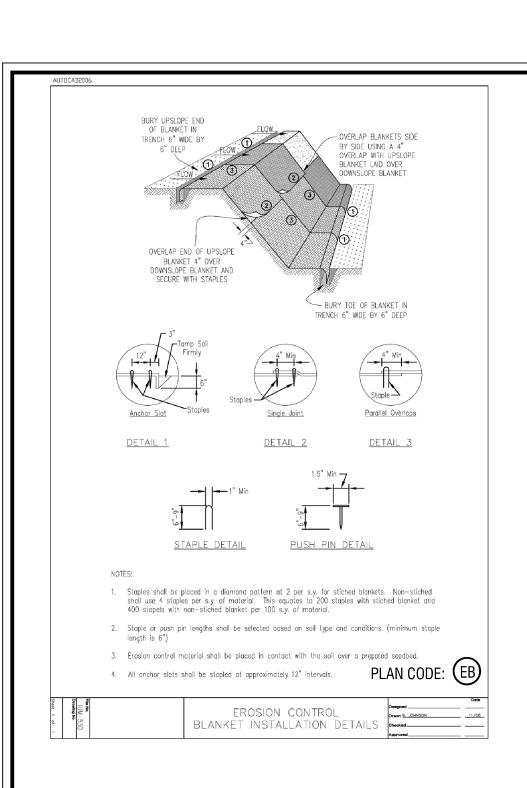
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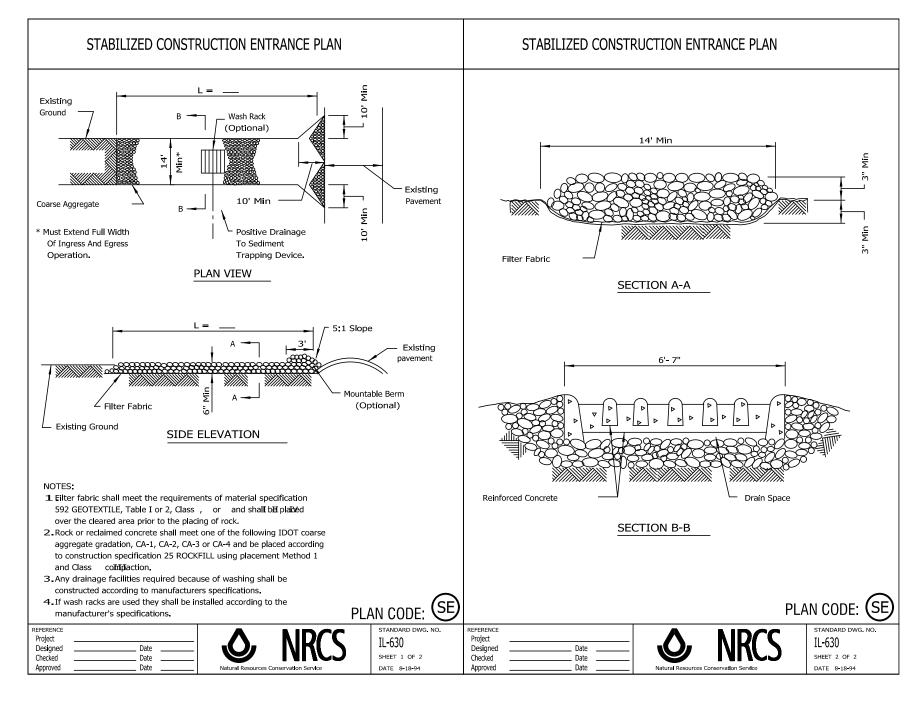
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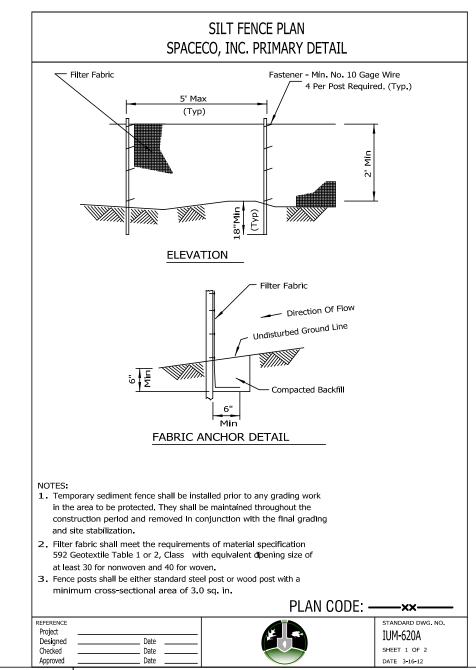
other measures

02/07/25

OF 17







6" WIRE STAPLE OR SANDBAG (ANCHOR EVERY 2')

4"x4"x6' Wood Post or 6'

1. Maintaining temporary concrete washout facilities shall include removing and disposing of

2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-

3. Each straw bale is to be staked in place using (2) 2"x2"x4' wooden stakes.

thirds fu**ll.**

TEMPORARY CONCRETE

WASHOUT FACILITY - STRAW BALE

hardend concrete and/or slurry and returning

the facilities to a functional condition.

<u>PLAN VIEW</u>

WASHOUT

AREA

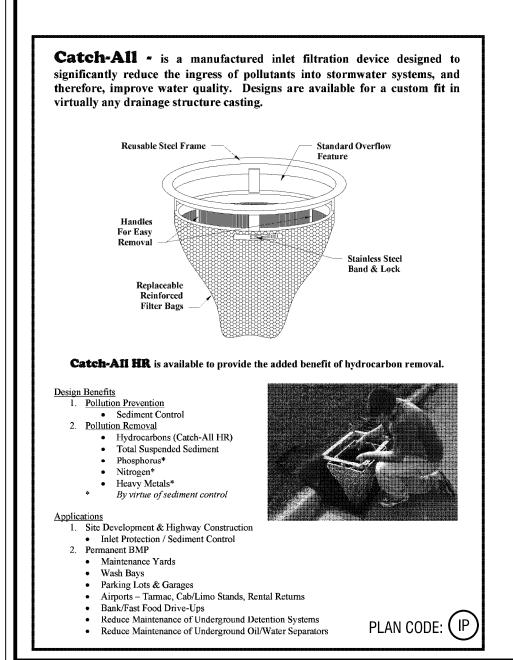
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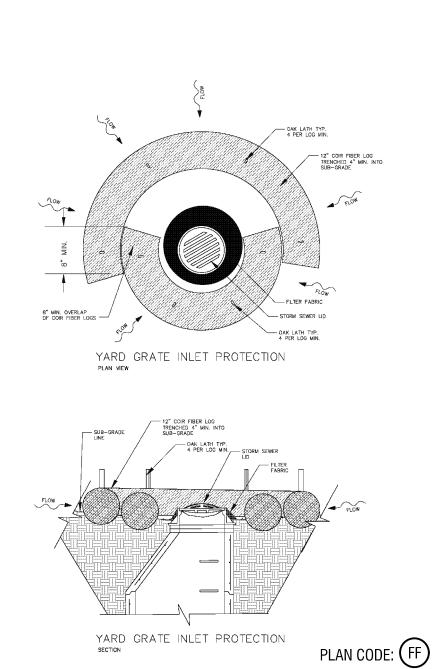
6" Wire Staple or Sandbag

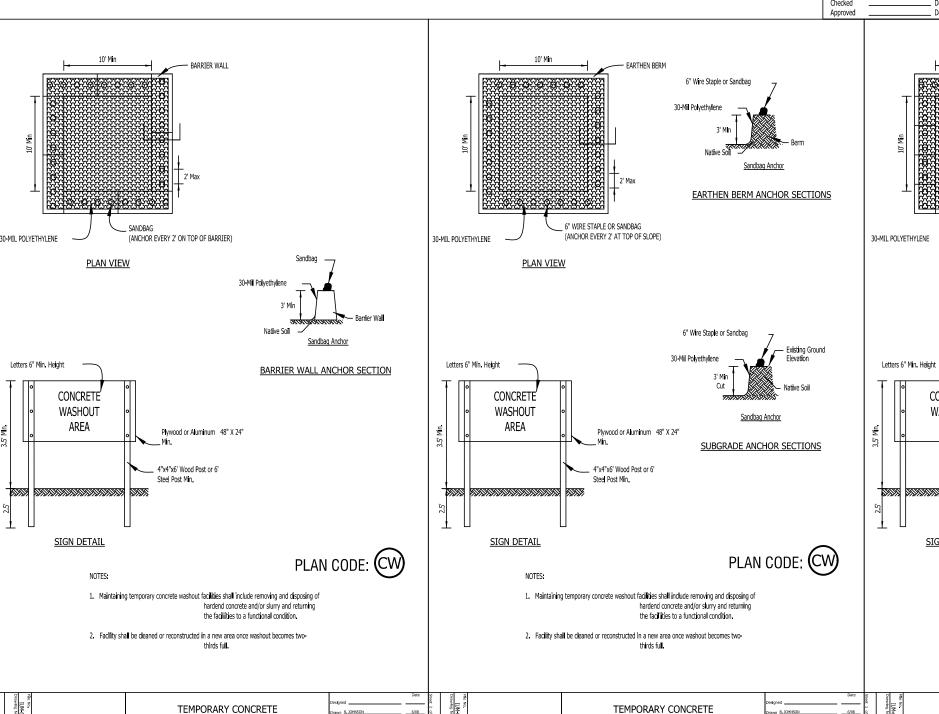
Liner Anchor

STRAW BALE ANCHOR SECTIONS

PLAN CODE: CW







WASHOUT FACILITY - EARTHEN TYPE

WASHOUT FACILITY - BARRIER WALL



SHEET

SE2

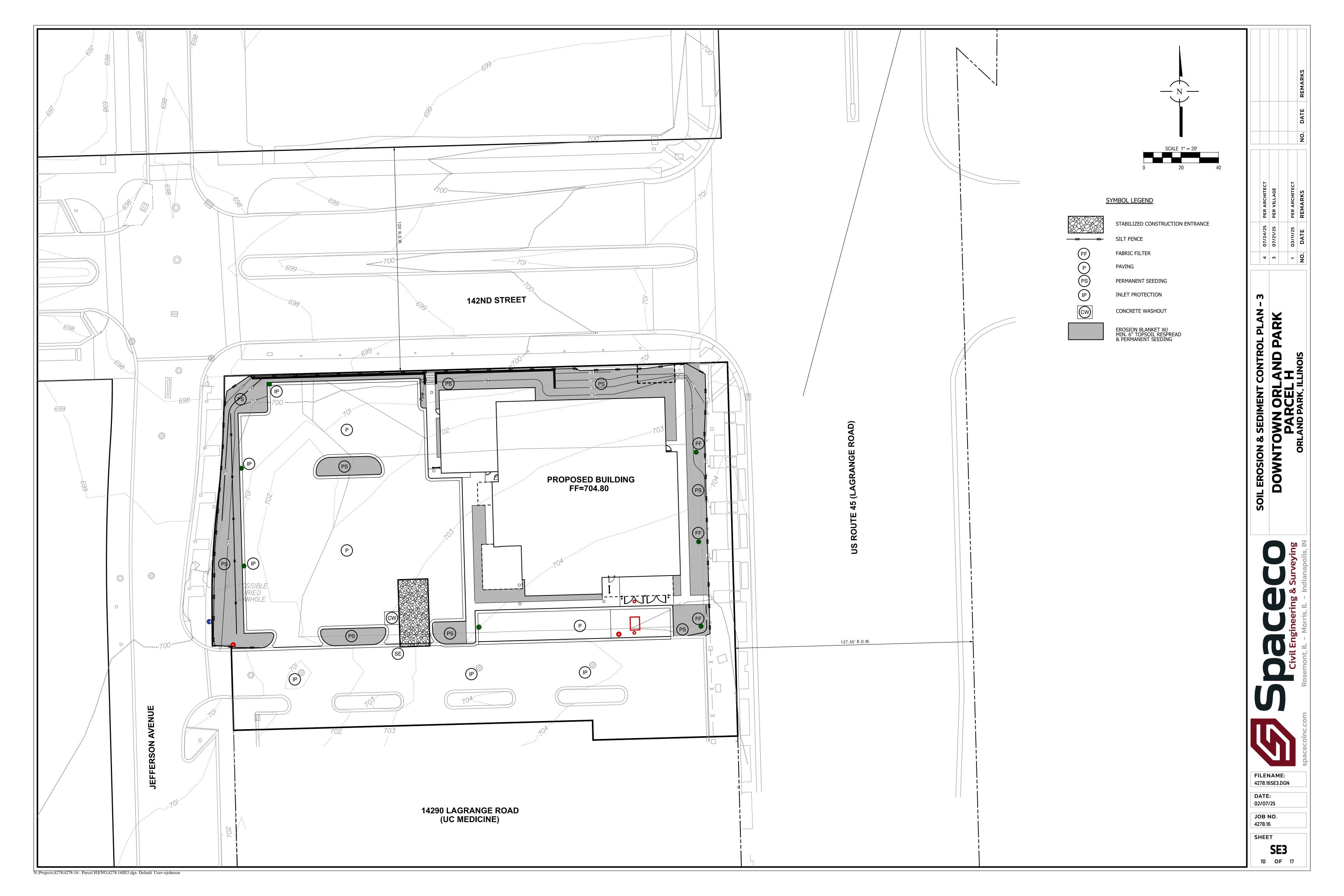
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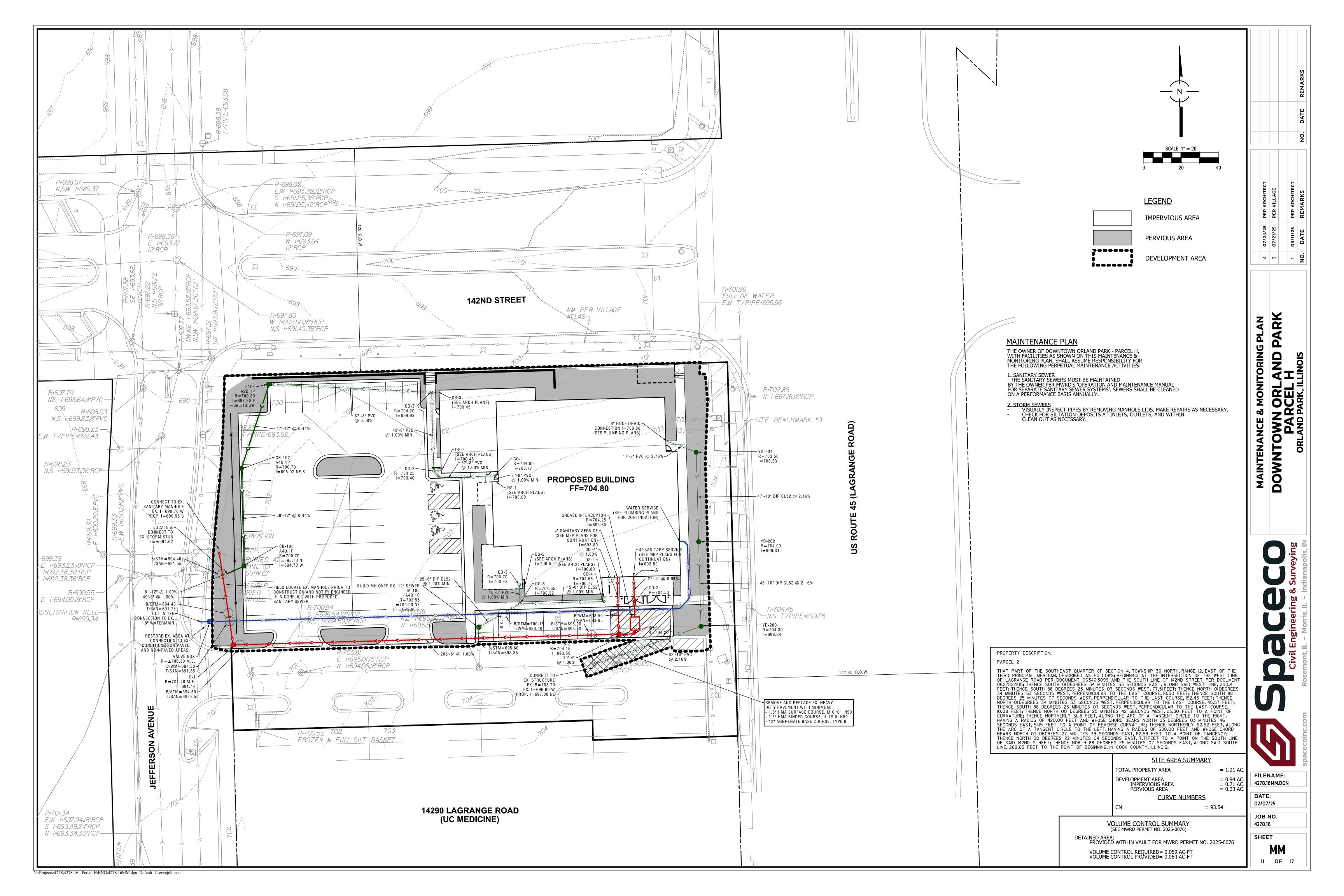
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SOL PLAN

CONTROL

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A. REFERENCED SPECIFICATIONS

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

 * VILLAGE OF __ORLAND PARK__ MUNICIPAL CODE;
- * THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;
- * IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

B. NOTIFICATIONS

- 1. THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055 OR SEND EMAIL NOTIFICATION WITH PROJECT NAME, LOCATION AND PERMIT NUMBER TO <u>WMOJOBSTART@MWRD.ORG</u>)
- 2. THE VILLAGE OF ORLAND PARK ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.
- 3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.

- I. ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). CONVERSION FACTOR IS <u>N/A</u> FT.
- 2. MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.
- 3. THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.
- 4. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.
- 5. THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.
- 6. ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- 7. MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.
- 8. THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.
- 9. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.
- 10. RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

D. SANITARY SEWER

- 1. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.
- 2. A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.
- 3. DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL
- FROM THE MUNICIPALITY OR MWRD.

 1. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
- 5. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
- 6. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
- 7. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

PIPE MATERIAL VITRIFIED CLAY PIPE	PIPE SPECIFICATIONS ASTM C-700	JOINT SPECIFICATIONS ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST IRON SOIL PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE 6-INCH TO 15-INCH DIAMETER SDR 26 18-INCH TO 27-INCH DIAMETER F/DY=46	ASTM D-3034 ASTM F-679	ASTM D-3212 ASTM D-3212
HIGH DENSITY POLYETHYLENE (HDPE)	ASTM D-3350 ASTM D-3035	ASTM D-3261,F-2620 (HEAT FUSION ASTM D-3212,F-477 (GASKETED)
WATER MAIN QUALITY PVC 4-INCH TO 36-INCH 4-INCH TO 12-INCH 14-INCH TO 48-INCH	ASTM D-2241 AWWA C900 AWWA C905	ASTM D-3139 ASTM D-3139 ASTM D-3139

THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

<u>PIPE MATERIAL</u> POLYPROPYLENE (PP) PIPE	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
12-INCH TO 24-INCH DOUBLE WALL	ASTM F-2736	D-3212, F-477
30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D3212, F-477

- ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE 1/4 " TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12' ABOVE THE TOP OF THE PIPE WHEN USING PVC.
- 9. NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.
- 10. ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD "SANITARY" CAST INTO THE LID.
- 11. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED: a) A CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE
- b) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION. c) WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
- 12. WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED. OR THE SEWER CROSSES ABOVE THE WATER MAIN. THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.
- 13. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
- 14. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED
- 15. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.
- 16. ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.
- 17. EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.
- 18. A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN TRIBUTARY TO COMBINED SEWERS, THE PERMITTEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF SEWAGE TAKES PLACE WITHIN 48 HOURS OF THE STORM EVENT.

- <u>E. EROSION AND SEDIMENT CONTROL</u>
- 1. THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- 2. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.
- 3. ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL
- PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL. 4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE
- SITE AT ALL TIMES. 5. INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
- a) UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY b) ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
- 6. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
- 7. A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- 8. CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING
- 9. MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.
- 10. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.
- 11. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.
- 12. ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).
- 13. VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
- 14. SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
- 15. EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL
- 16. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
- 17. THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.
- 18. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- 19. THE CONTRCTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMAINS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.
- 20. ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.
- 21. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.
- 22. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
- 23. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITÉ INSPECTOR, OR MWRD.

10/13/2022

STD. DWG. NO.18

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DATE:

MWRD 12 OF 17

TECHNICAL GUIDANCE MANUAL

MWRD GENERAL NOTES

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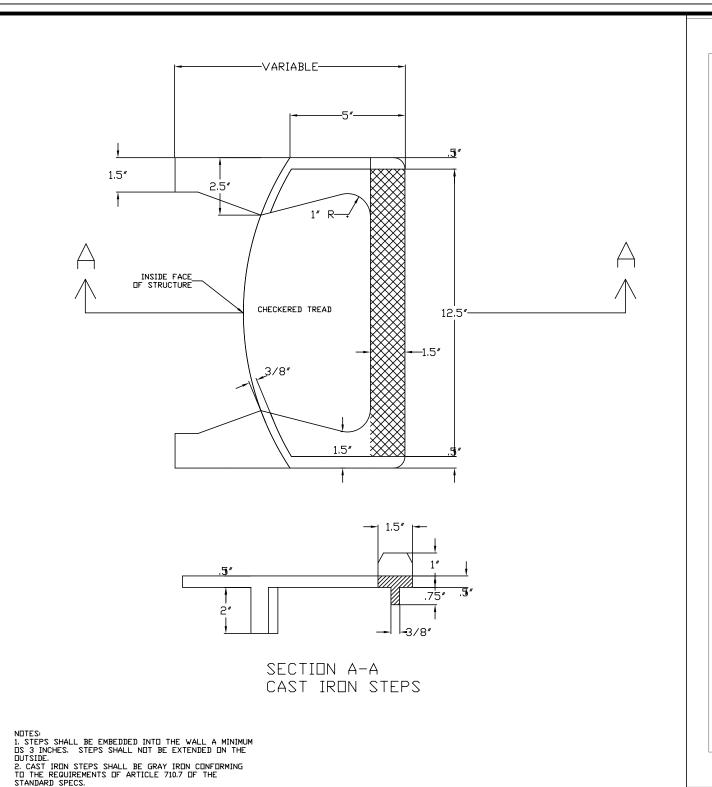
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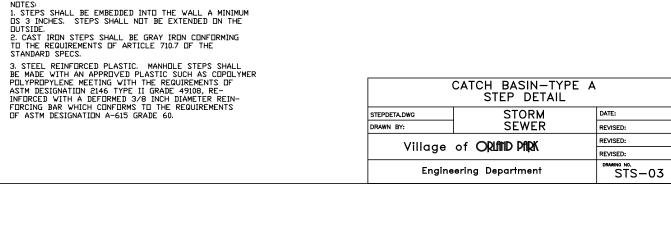
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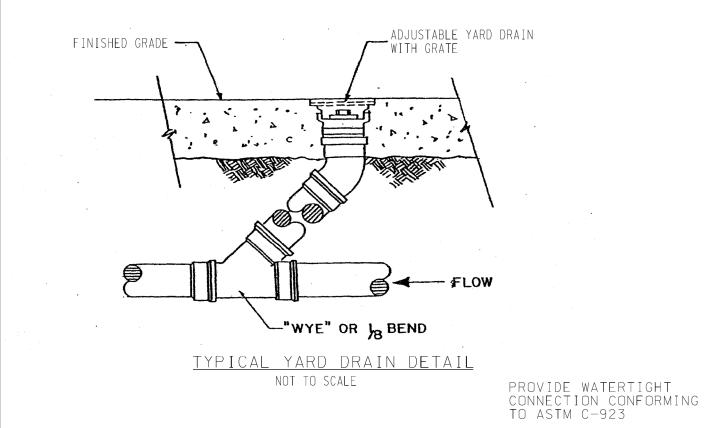
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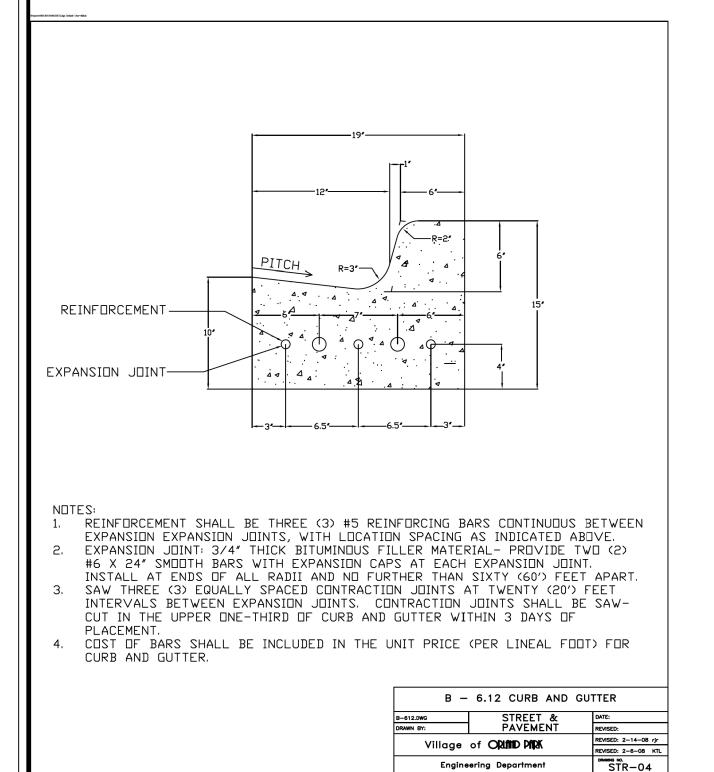
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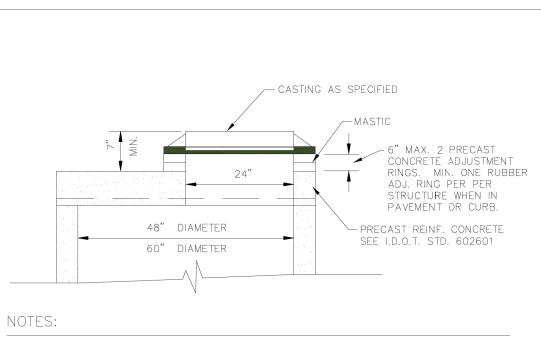
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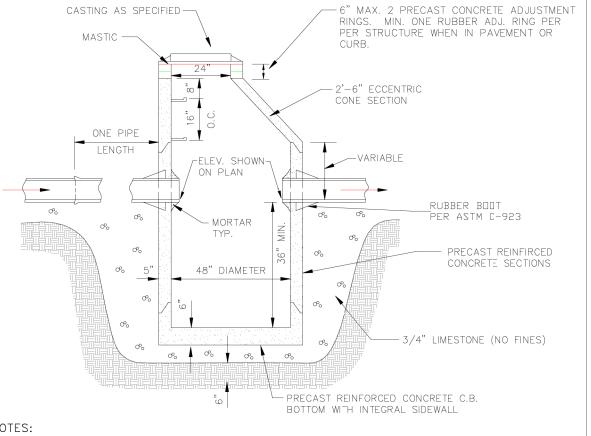


1. Adjustment: Any structure located within pavement shall require the use of at least one (1) rubber adjustment riser, Infra-Riser brand or approved equal, and, if necessary, said riser shall be of the tapered type in order to match the proposed grade of the roadway. No more than two (2) precast concrete adjusting rings with six (6) inch maximum height adjustment shall be allowed. Adjustments within pavement that are less than three (3) inches in height shall consist of only rubber adjustment riser(s). The minimum thickness of a rubber adjustment riser shall be one (1) inch. Adjustments within payement greater than three (3) inches in height shall use a minimum three (3) inch precast concrete riser for the lower riser,

and the final riser shall be of the rubber type.

2. Sealing: All non-rubber mating surfaces, exterior joints of frames, adjustment riser(s), flat slab top or cone section (if applicable) and structure section shall be sealed with a uniform application of bituminous mastic sealant. The mating surfaces of all rubber adjustment risers shall be sealed with the manufacturer's recommended sealant for rubber adjustment risers. If multiple adjustment risers are required, a continuous application of sealant shall be applied between each unit. Interior surfaces shall be sealed with concrete mortar or epoxy mortar. Concrete mortar or epoxy mortar will not be used on mating surfaces as a sealant between adjustment risers, structure sections or frames.

	FLAT SLAB TOP	
FLTSLAB.DWG	STORM SEWER	DATE:
DRAWN BY:	IMPROVEMENT	REVISED:
Villago	of ORLFIND PFIRK	REVISED:
village	OT ORDINO PIRK	REVISED: wdc 01-05-1:
Engine	ering Department	STS-06



Adjustment: Any structure located within pavement shall require the use of at least one (1) rubber adjustment riser, Infra-Riser brand or approved equal, and, if necessary, said riser shall be of the tapered type in order to match the proposed grade of the roadway. No more than two (2) precast concrete adjusting rings with six (6) inch maximum height adjustment shall be allowed. Adjustments within pavement that are less than three (3) inches in height shall consist of only rubber adjustment riser(s). The minimum thickness of a rubber adjustment riser shall be one (1) inch. Adjustments within pavement greater than three (3) inches in height shall use a minimum three (3) inch precast concrete riser for the lower riser, and the final riser shall be of the rubber type.

Pipe and frame seals: All pipe connection openings shall be precast with resilient rubber water tight pipe to manhole sleeves or seals conforming to ASTM C-923. Adapter chimney seal with twelve (12) inch sleeve type shall extend from the manhole cone to the manhole frame for all structures in the right-of-way.

Sealing: All mating surfaces of adjustment riser(s), structure sections, and frames shall be sealed with a mastic sealant. No concrete mortar or epoxy shall be allowed as a sealant for adjustment risers, structure sections or frames. If multiple adjustment risers are required, a continuous application of sealant shall be applied between each unit.

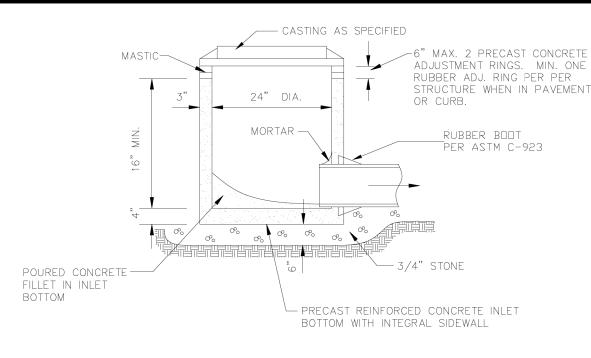
4. All bottom sections shall be monolithically precast including bases and invert flowlines.

5. Provide CA-6 aggregate backfill around catch basin to subgrade elevation in paved areas.for subgrade.

	TYPE A	
CBASIN_A.DWG	STORM SEWER	DATE:
DRAWN BY:	IMPROVEMENT	REVISED:
Villago	of ODIAND DADK	REVISED:
Village of ORLAND PARK		REVISED: wdc 01-05-12
Engine	ering Department	STS-02

PAVEMENT

Village of **Opinio Pripi Engineering Department** REVISED: 2-14-08 rjr



1. Adjustment: Any structure located within pavement shall require the use of at least one (1) rubber adjustment riser, Infra-Riser brand or approved equal, and, if necessary, said riser shall be of the tapered type in order to match the proposed grade of the roadway. No more than two (2) precast concrete adjusting rings with six (6) inch maximum height adjustment shall be allowed. Adjustments within pavement that are less than three (3) inches in height shall consist of only rubber adjustment riser(s). The minimum thickness of a rubber adjustment riser shall be one (1) inch. Adjustments within pavement greater than three (3) inches in height shall use a minimum three (3) inch precast concrete riser for the lower riser, and the final riser shall be of the rubber type.

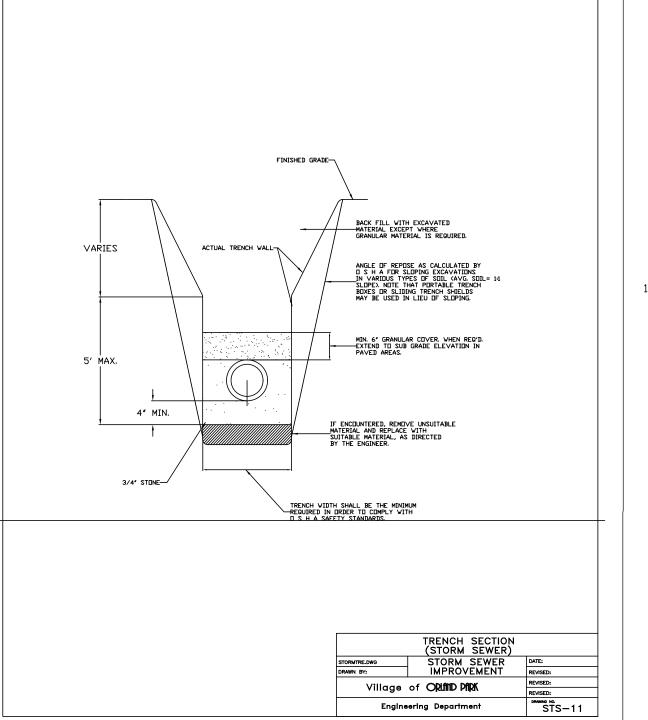
Pipe and frame seals: All pipe connection openings shall be precast with resilient rubber water tight pipe to manhole sleeves or seals conforming to ASTM C-923. Adapter chimney seal with twelve (12) inch sleeve type shall extend from the manhole cone to the manhole frame for all structures in the right-of-way.

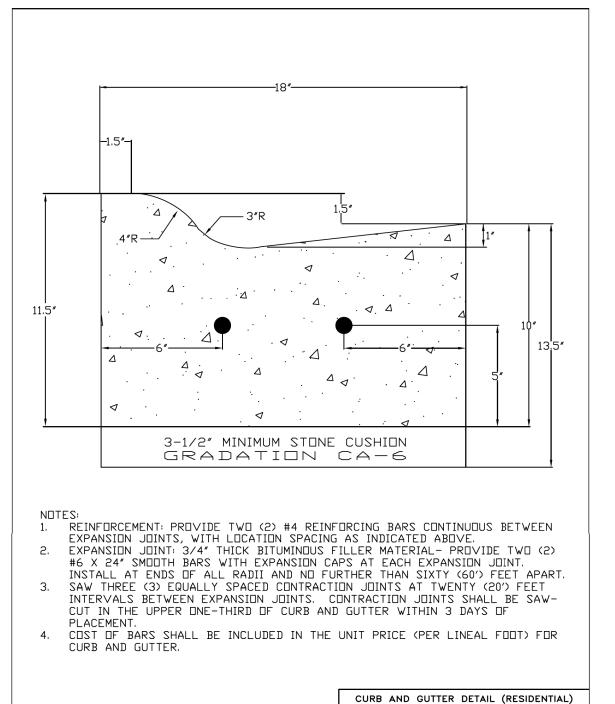
Sealing: All non-rubber mating surfaces, exterior joints of frames, adjustment riser(s), flat slab top or cone section (if applicable) and structure section shall be sealed with a uniform application of bituminous mastic sealant. The mating surfaces of all rubber Adjustment risers shall be sealed with the manufacturer's recommended sealant for rubber adjustment risers. If multiple adjustment risers are required, a continuous application of sealant shall be applied between each unit. Interior surfaces shall be sealed with concrete mortar or epoxy mortar. Concrete mortar or epoxy mortar will not be used on mating surfaces as a sealant between adjustment risers, structure sections or frames

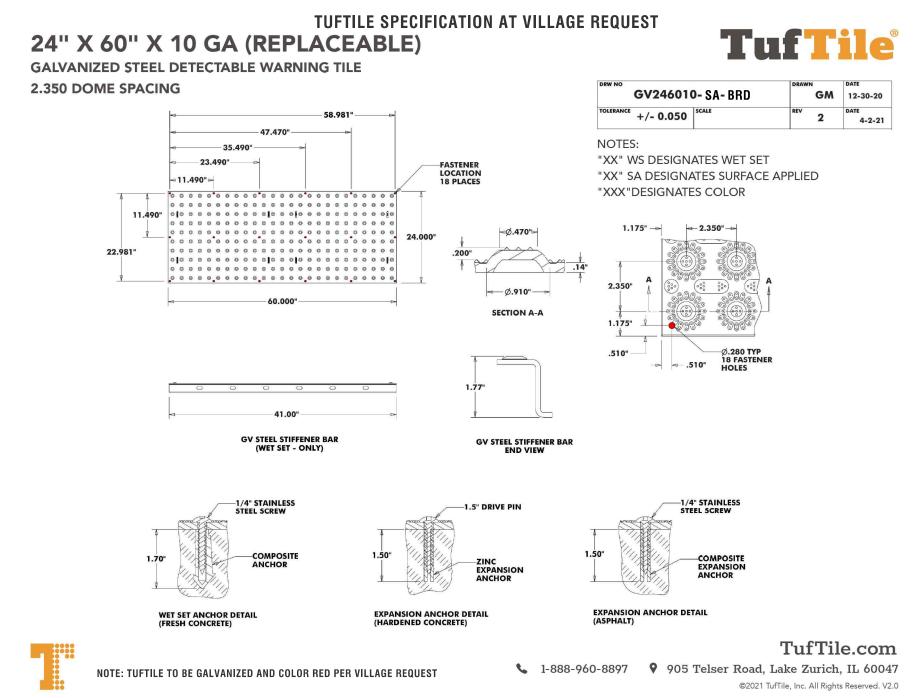
4. All bottom sections shall be monolithically precast including bases and invert flowlines.

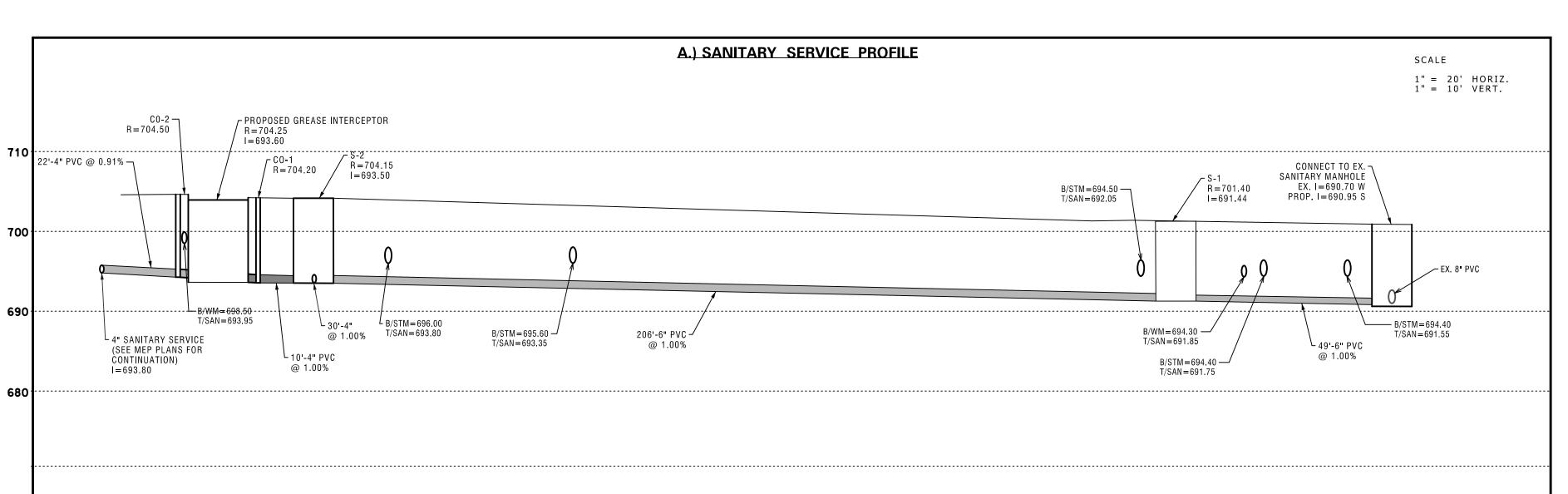
5. Provide CA-6 aggregate backfill around inlet to subgrade elevation in paved areas.for subgrade.

	INLET TYPE A	
INLET_A.DWG	STORM SEWER	DATE:
DRAWN BY:	IMPROVEMENT	REVISED:
Villago	of ORLFIND PFIRK	REVISED:
village	OT OKTIND BIRK	REVISED: wdc 01-05-12
Engine	ering Department	STS-05









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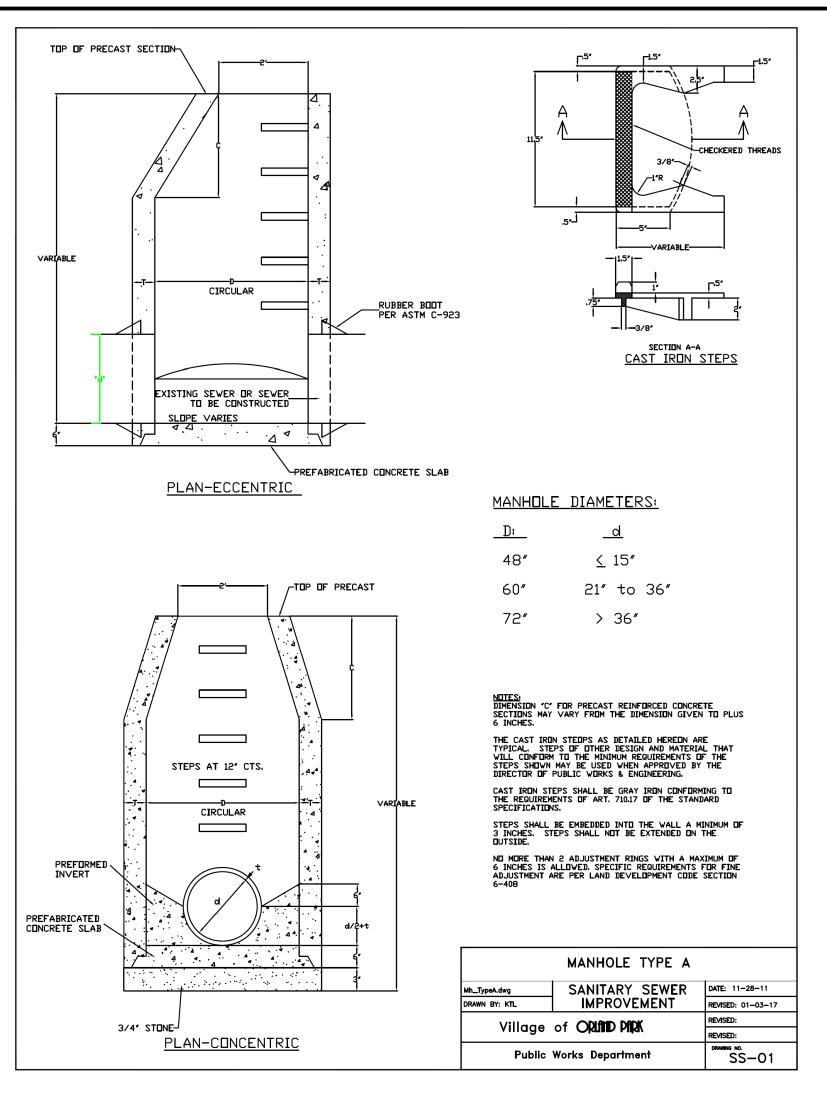
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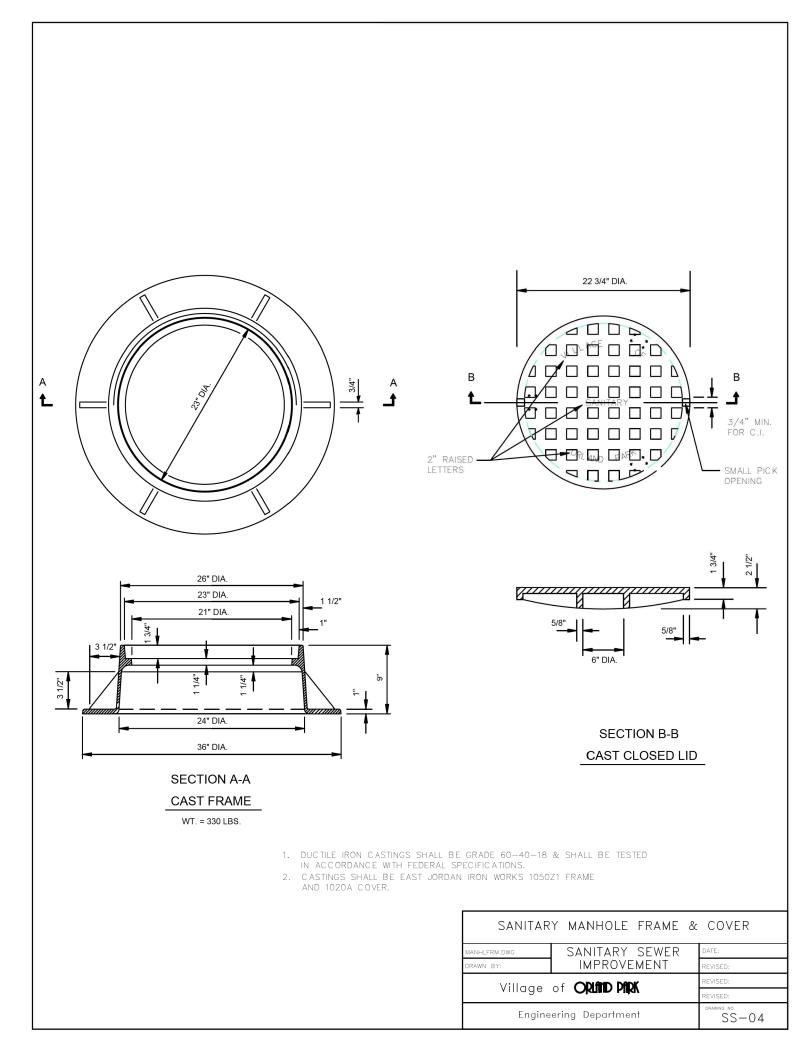
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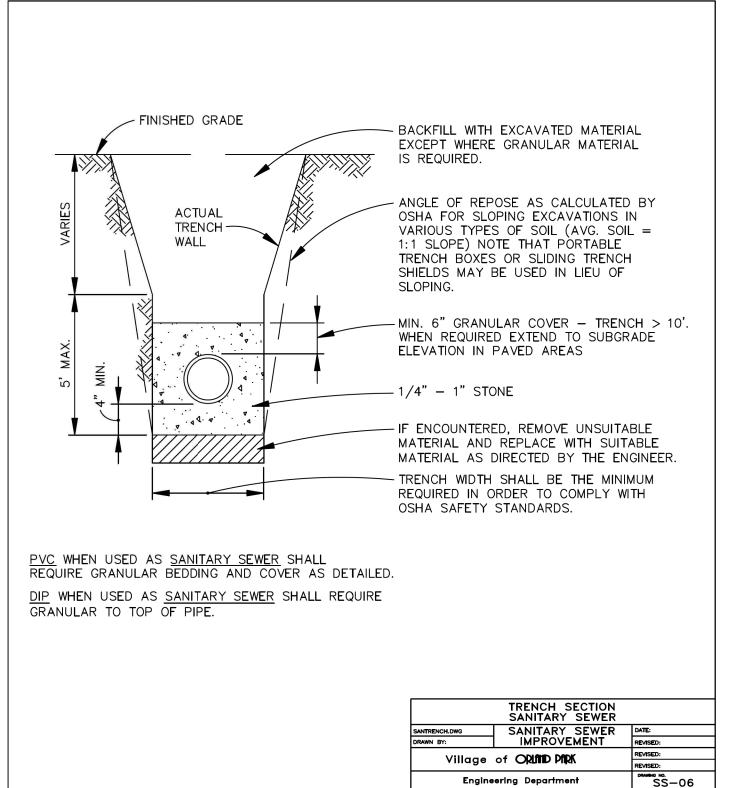
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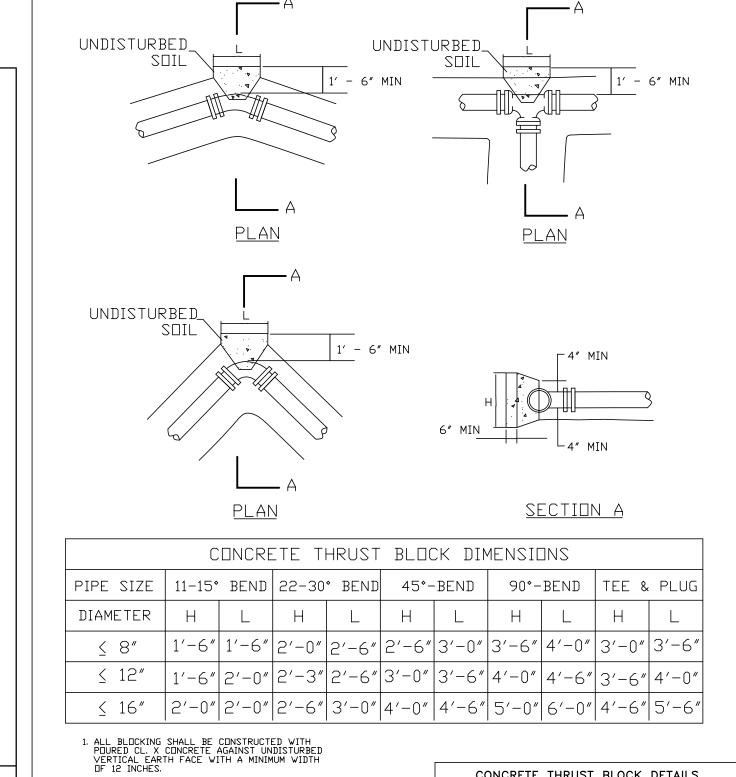
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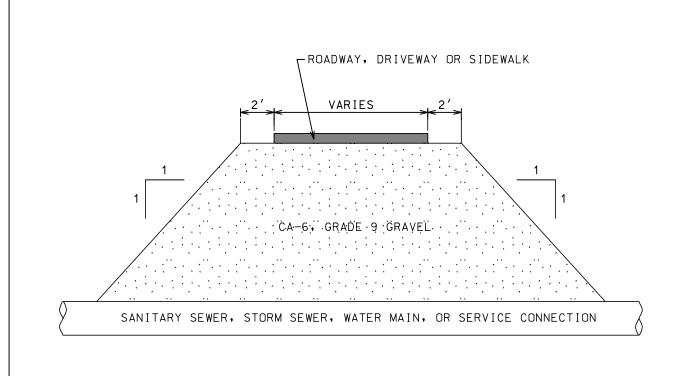
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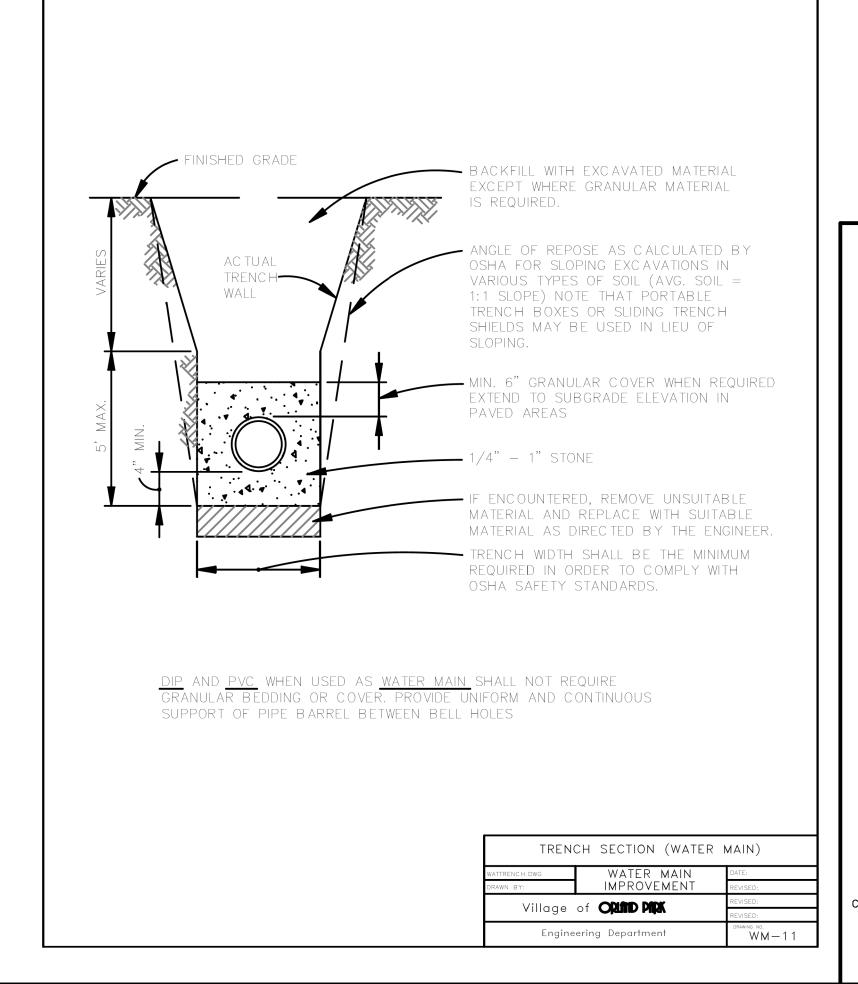


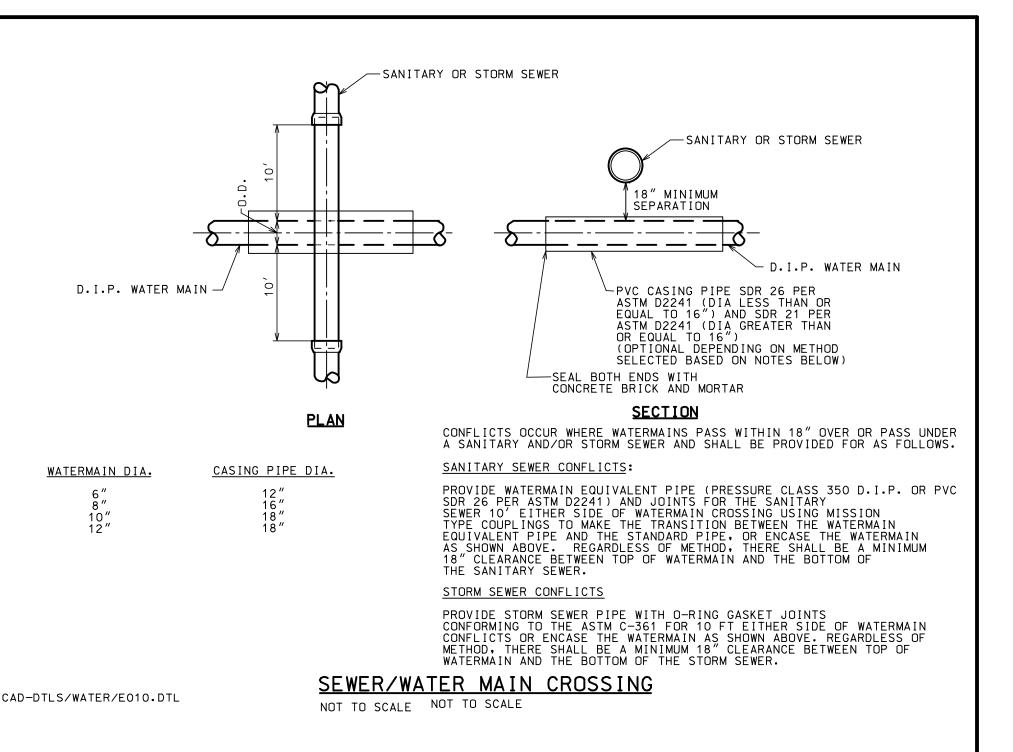
TRENCH BACKFILL LIMITS

2. THRUST BLUCKS TO BE USED AT ALL BENDS 11 1/4 DEGREES OR GREATER.

3. MECHANICAL JUINT RETAINER GLANDS MAY BE USED AS AN ALTERNATIVE TO CONCRETE THRUST BLOCK INSTALLATION WHEN APPROVED BY THE VILLAGE ENGINEER.

4. TEST PRESSURE 150 PSI.







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CONCRETE THRUST BLOCK DETAILS

IMPROVEMENT

Village of ORLAND PARK

Engineering Department

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ABBREVIATIONS			
ACCU	NOTE: NOT ALL ITEMS MAY BE USED. AIR COOLED CONDENSING UNIT		
A/C ACU	AIR CONDITIONING AIR CONDITIONING UNIT		
AC	ALTERNATING CURRENT		
AD ADA	ACCESS DOOR AMERICAN DISABILITIES ACT		
ADJ AF	ADJUSTABLE AMP FUSE		
AFF AHJ	ABOVE FINISHED FLOOR AUTHORITY HAVING JURSIDICTION		
AHU	AIR HANDLING UNIT		
AL AMP	ALUMINUM AMPERE (AMP, AMPS)		
ANSI AP	AMERICAN NATIONAL STANDARDS INSTITUTE ACCESS PANEL		
APPROX	APPROXIMAT(E), (ELY)		
ARCH AWG	ARCHITECT AMERICAN WIRE GAUGE		
BB BLDG	BASEBOARD BUILDING		
вот	ВОТТОМ		
C/B C/T	CIRCUIT BREAKER CURRENT TRANSFORMER		
CKT	CIRCUIT CEILING		
CONC	CONCRETE CONSTRUCTION		
CONT.	CONTINUOU(S), (E)		
Cu DB	COPPER DECIBEL(S)		
DC DED	DIRECT CURRENT DEDICATED		
DEPT	DEPARTMENT		
DIA DIP	DIAMETER DUCTILE IRON PIPE		
DISC.	DISCONNECT DAYLIGHT SENSOR		
DWG	DRAWING		
(E) EX	EXISTING EXIT		
(ER) EBB	EXISTING RELOCATED ELECTRIC BASE BOARD		
EC	ELECTRICAL CONTRACTOR		
EDH EF	ELECTRIC DUCT HEATER EXH FN EXHAUST FAN		
ELEC ELEV	ELECTRIC ELEVATOR		
EM ENCL	EMERGENCY ENCLOSURE		
EQUIP	EQUIPMENT		
EUH EWC	ELECTRIC UNIT HEATER ELECTRIC WATER COOLER		
EXIST EX	EXISTING EXIT SIGN		
EXT	EXTERIOR		
FIXT FLEX	FIXTURE FLEXIBLE		
FLR FP	FLOOR FIRE PROTECTION		
FURN	FURNISH GALVANIZED		
GALV GC	GENERAL CONTRACTOR		
GFCI GND	GROUND FAULT CIRCUIT INTERRUPTER GROUND		
HOA HORIZ	HAND, OFF, AUTO STATION HORIZONTAL		
HP	HORSEPOWER		
HR HVAC	HOUR HEATING, VENTILATING, AND AIR CONDITIONING		
HZ INT	FREQUENCY INTERIOR		
KW	KILOWATT		
KWH LV	KILOWATT HOUR LOW VOLTAGE		
MAX MC	MAXIMUM MECHANICAL CONTRACTOR		
МСВ	MAIN CIRCUIT BREAKER		
MECH MIN	MECHANICAL MINIMUM		
MISC MLO	MISCELLANEOUS MAIN LUG ONLY		
MTD	MOUNTED		
MTL (N)	METAL NEW		
NA NIC	NOT APPLICABLE NOT IN CONTRACT		
NL	NIGHT LIGHT		
NO. NTS	NUMBER NOT TO SCALE		
OS PC	OCCUPANCY SENSOR PHOTOCELL		
PD	PRESSURE DROP/DIFFERENCE		
PH POC	PHASE (ELECTRIC) POINT OF CONNECTION		
QTY RECPT.	QUANTITY RECEPTALCE(S)		
RM	ROOM		
RTU SECT	ROOF TOP UNIT SECTION		
SHT SPD	SHEET SURGE PROTECTION DEVICE		
SWT	SWITCH		
T.C. TYP	TIME CLOCK TYPICAL		
UNO VA	UNLESS NOTED OTHERWISE VOLT AMPERE		
VAR	VARIABLE		
VERT	VERTICAL		

LEGEND				
NOTE: NOT ALL ITEMS MAY BE USED.				
SYMBOL	DESCRIPTION			
1)	KEYNOTE TAG			
	REVISION TAG			
•	PUSH BUTTON			
0	JUNCTION BOX			
РВ	PULL BOX			
<i>,-</i> /-	NEW UNDERGROUND CONDUIT AND WIRE RUN			
	GROUND WIRE			

SITE LIGHTING POLE LIGHT

 \Diamond

GENERAL NOTES

ELECTRICAL NOTES AND SPECIFICATIONS

- ALL WORK SHALL COMPLY WITH ALL THE APPLICABLE LOCAL, MUNICIPAL AND FIRE CODES. THE WORK SHALL BE IN TOTAL COMPLIANCE WITH THE RULES AND REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION.
- REVIEW ADOPTED CODES AND CODE AMENDMENTS WITH THE LOCAL GOVERNING AUTHORITIES AND BECOME FAMILIAR WITH THE LOCAL REGULATIONS RELATING TO
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTION FEES AS REQUIRED FOR HIS PORTION OF THE WORK.
- CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL COMPLETION.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH THE RESPECTIVE TRADES AND VERIFY LOCATIONS FROM THE ARCHITECTURAL DRAWINGS, FIELD MEASUREMENTS AND SUPPLIER SHOP DRAWINGS.
- COORDINATE EQUIPMENT VOLTAGE, PHASE, BREAKER SIZE, AND DISCONNECTING MEANS WITH SUBCONTRACTORS PROVIDING EQUIPMENT PRIOR TO ORDERING AND INSTALLATION OF ANY EQUIPMENT, PANELS, BREAKERS, CONDUIT AND WIRE, ETC.
- WORK REQUIRED OF ANY TRADE MAY BE SHOWN ANYWHERE ON ANY DRAWING OR IN ANY PART OF THE SPECIFICATIONS. THE CONTRACTOR IS ADVISED TO INCLUDE ALL WORK IN HIS BID. NO CLAIM FOR AN EXTRA WILL BE CONSIDERED FOR FAILURE
- CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS OF ALL TRADES AND SHALL INCLUDE ANY ELECTRICAL WORK INDICATED OR REQUIRED BY ANY TRADE. THE CONTRACTOR ACKNOWLEDGES BY SUBMITTING A BID THAT CONSTRUCTION DOCUMENTS HAVE BEEN REVIEWED, AND THAT THE INFORMATION SHOWN AND DESCRIBED IS SUFFICIENT TO PREPARE A COMPLETE AND ACCURATE | 26. ALL 120 VOLT CIRCUITS SHALL HAVE A DEDICATED NEUTRAL. BID FOR A COMPLETE, FINISHED PROJECT. ANY CLARIFICATIONS, DISCREPANCIES, OMISSIONS, REQUEST FOR ADDITIONAL INFORMATION, OR UNUSUAL CONDITIONS ARE TO BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR RESOLUTION IN WRITING PRIOR TO SUBMITTING BIDS.
- SEE ARCHITECTUAL PLANS FOR FULL SCOPE OF ARCHITECTURAL DEMOLOTION. REMOVE ALL ELECTRICAL DEVICES AND FIXTURES AND ASSOCIATED CONDUIT AND WIRE IN WALLS AND CEILINGS BEING DEMOLISHED. REMOVE FLOOR MOUNTED ELECTRICAL DEVICES AND ASSOCIATED CONDUIT AND WIRE IN DOMOLISHED AREAS. PATCH EXISTING FLOORS WHERE DEVICES AND CONDUITS ARE REMOVED. MAINTAIN EXISTING FLOOR FIRE RATINGS.
- 10. ALL DIMENSIONS TO BE VERIFIED IN THE FIELD AND WITH SHOP DRAWINGS.
- 11. CONTRACTOR SHALL COMPLY WITH ALL IDENTIFICATION REQUIREMENTS OF THE NEC AND AHJ
- INDEPENDENT ELECTRICAL EQUIPMENT SUPPORT WIRES INSTALLED WITHIN A DROP CEILING SHALL BE DISTINGUISHED BY COLOR, TAG OR OTHER PERMANENT
- 13. LAYOUT OF EQUIPMENT, ACCESSORIES AND WIRING ARE DIAGRAMMATIC AND DO NOT INDICATE EVERY BOX, CONDUIT, WIRING OR SIMILAR ITEMS FOR A COMPLETE INSTALLATION.
- 14. CUTTING OF ANY STRUCTURAL MEMBER SHALL BE APPROVED BY THE ARCHITECT IN WRITING PRIOR TO WORK BEING DONE.
- 15. WHEREVER CIRCUIT CONDUCTORS ARE SPLICED IN A BOX, ANY EQUIPMENT GROUNDING CONDUCTOR ASSOCIATED WITH THESE CIRCUITS MUST BE BONDED ("PIGTAILED") TO THE BOX.
- 16. CIRCUIT NUMBERS GIVEN ON DRAWINGS ARE FOR CIRCUIT IDENTIFICATION ONLY. THE CONTRACTOR SHALL INSTALL CIRCUITRY AS GOVERNED BY FIELD CONDITIONS. PROVIDE UPDATED PANEL DIRECTORIES AT COMPLETION OF
- 17. ALL LINE VOLTAGE CONDUCTORS SHALL BE COPPER, MINIMUM #12 GAGE, 98% CONDUCTIVITY WITH 600 VOLT INSULATION, SUITABLE FOR 60°C OPERATING TEMPERATURE, APPROPRIATE FOR DRY OR WET LOCATIONS, THW, THWN OR THHN FOR BRANCH CIRCUITS, SIZES #10 AND LARGER TO BE STRANDED. FEEDERS AND MOTOR POWER CIRCUITS SHALL BE THW OR THHN, COPPER WITH 600 VOLT INSULATION, SUITABLE FOR 75°C OPERATING TEMPERATURE AND APPROPRIATE FOR DRY OR WET LOCATIONS. LOW VOLTAGE CONDUCTORS SHALL BE MINIMUM #14 GAGE.
- RACEWAY FITTINGS SHALL BE GALVANIZED STEEL. EXTERIOR MOUNTED RACEWAYS SHALL BE GALVANIZED RIGID STEEL WITH THREADED FITTINGS, PROTECTED WITH GALVANIZED COATING.

- 19. WHERE CONDUIT PASSES FROM THE INTERIOR TO THE EXTERIOR OR UNCONDITIONED SPACES. THE RACEWAY SHALL BE PVC AND SHALL BE FILLED WITH AN APPROVED MATERIAL (POLYWATER FST OR EQUAL) TO PREVENT CIRCULATION OF WARM AIR TO A COLDER SECTION OF THE RACEWAY.
 - 20. PROVIDE PULL WIRE IN ALL EMPTY CONDUITS.
 - 21. INSTALLATION OF ALL LIGHTING FIXTURES SHALL INCLUDE ALL NECESSARY CONDUIT (SOLID OR FLEXIBLE), WIRING, JUNCTION BOXES, ETC., FOR CIRCUIT
 - 22. ALL FEEDER AND BRANCH CIRCUITS SHALL INCLUDE GROUNDING CONDUCTORS SIZED IN ACCORDANCE WITH THE NEC.
 - 23. ALL NEW MATERIALS AND EQUIPMENT SHALL BE LISTED AND/OR LABELED BY U.L., ETL, CSA OR ANOTHER RECOGNIZED TESTING LAB.
 - 24. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS.
 - 25. CORING AND PENETRATIONS: FURNISH AND INSTALL ALL SLEEVES THRU WALLS AND CORING THRU FLOORS. ANY CUTTING, DRILLING OR CORING SHALL BE DONE WET TO MINIMIZE SPREAD OF DUST. WEATHERPROOF ALL PENETRATIONS THRU FOUNDATION AND EXTERIOR WALLS. FIREPROOF ALL CONDUITS OPENINGS BETWEEN FLOORS AND ANY INTERSPACE FIRE SEPARATION WALLS WITH AN APPROVED UL LISTED FIRE RETARDANT MATERIAL.

 - 27. THE TOTAL VOLTAGE DROP ACROSS THE COMBINATION OF FEEDERS AND BRANCH CIRCUITS SHALL NOT EXCEED FIVE (5) PERCENT.
 - 28. LIGHTING SYSTEM FUNCTIONAL TESTING:
 - A. FUNCTIONAL TESTING SHALL BE PERFORMED IN COMPLIANCE WITH THE IECC BY THE GENERAL CONTRACTOR TO ENSURE THAT THE HARDWARE IS CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - B. TESTING SHALL CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR OCCUPANT SENSORS YIELD ACCEPTABLE PERFORMANCE.
 - C. CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.
 - 29. SUBSTITUTIONS: CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DESIGN MODIFICATIONS RESULTING FROM EQUIPMENT SUBSTITUTED FROM THAT WHICH IS SPECIFIED. MODIFICATIONS INCLUDE BUT NOT LIMITED TO: REQUIRED WORKING AND CODE CLEARANCES; LOCATIONS AND DIMENSIONS OF OPENINGS; STRUCTURAL COORDINATION; BREAKER, WIRE, CONDUIT SIZES. SUBSTITUTIONS OF LIGHT FIXTURES SHALL BE VERIFIED COMPLIANT WITH THE ENERGY CODE BY THE CONTRACTOR. CONTRACTOR SHALL PROVIDE REVISED COMCHK TO AHJ IF NECESSARY. SUBSTITUTIONS OF LIGHT FIXTURES SHALL BE VERIFIED BY CONTRACTOR TO HAVE SAME PHOTOMETRIC DISTRIBUTION AS LIGHT FIXTURES SPECIFIED.

30. SHOP DRAWINGS:

- A. SUBMIT COORDINATED SHOP DRAWINGS FOR ALL EQUIPMENT, CONDUIIT, WIRE AND TIME CLOCK, ETC.
- B. SUBMIT ALL SHOP DRAWINGS FOR REVIEW AND APPROVAL TO ARCHITECT'S
- OFFICE PRIOR TO PURCHASE, FABRICATION, AND INSTALLATION. C. CONTRACTOR SHALL HIGHLIGHT OR SUMMARIZE ANY DEVIATIONS IN THE SHOP DRAWING SUBMITTALS FROM THE CONTRACT DOCUMENTS.
- 31. MANUALS: DOCUMENTS DESCRIBED BELOW SHALL BE PROVIDED TO THE BUILDING OWNER WITHIN 90 DAYS OF THE DATE (U.N.O.) OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY:
- A. SUBMITTAL DATA STATING EQUIPMENT SIZE AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE
- B. MANUFACTURER'S OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, EXCEPT EQUIPMENT NOT FURNISHED AS PART OF THE PROJECT. REQUIRED ROUTINE
- MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.

RECOMMENDED SET-POINTS

- C. NAME AND ADDRESS OF AT LEAST ONE SERVICE AGENCY
- D. A NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING
- E. AS-BUILT DRAWING(S) OF ELECTRICAL POWER SYSTEMS WITHIN 30 DAYS OF SYSTEM ACCEPTANCE



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REV.	DESCRIPTION	DATE
	ISSUE FOR REVIEW AND COORDINATION	06.25.2025

PROJECT NO.:	25-184
DRAWN BY:	EJ
REVIEWED BY:	PN

DRAWING TITLE:

ELECTRICAL NOTES, LEGEND & **ABBREVIATIONS**

DRAWING NO.:

W/O

VS

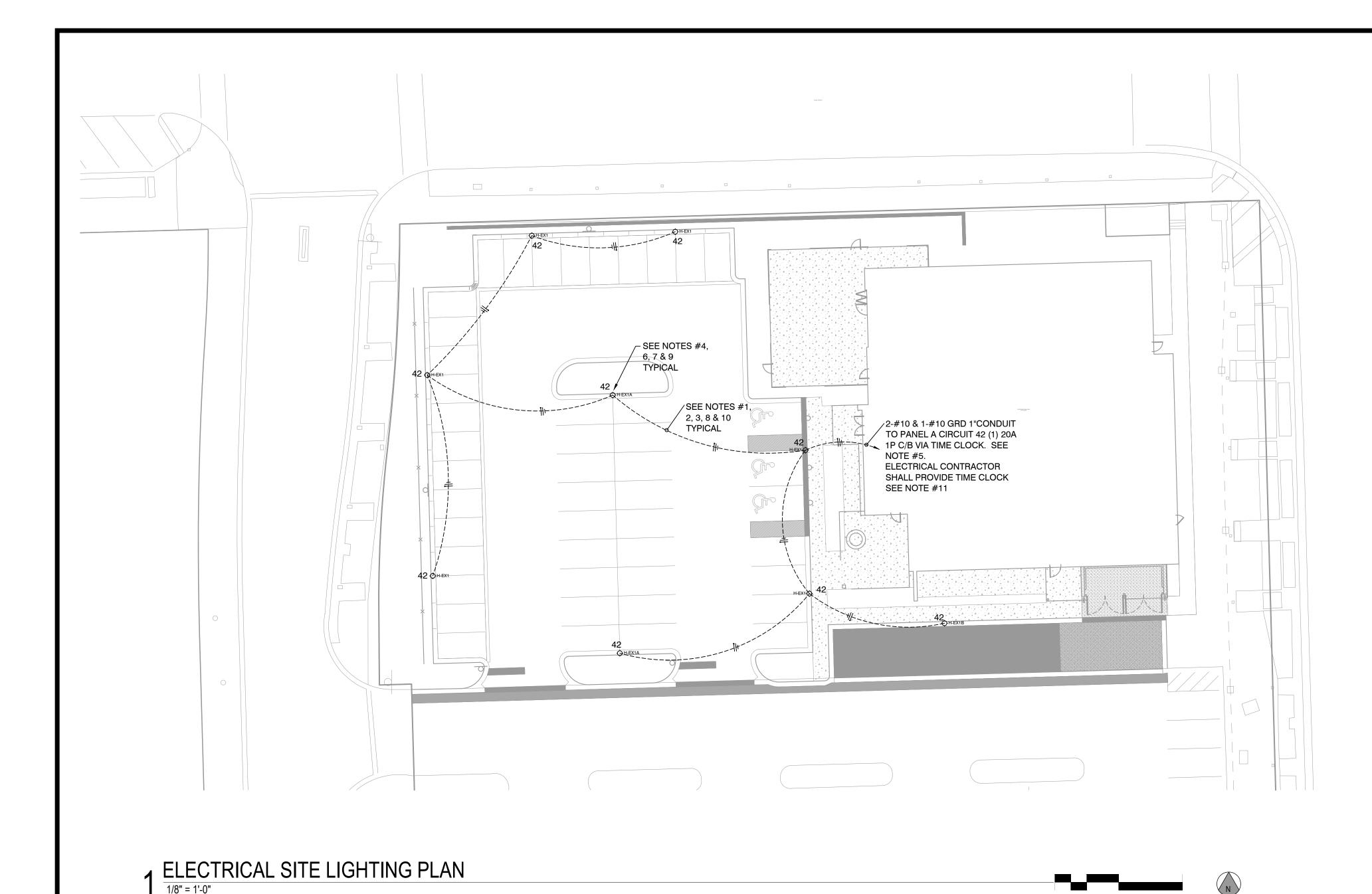
WITHOUT

WITH

VACANCY SENSOR

WIRE OR WATT

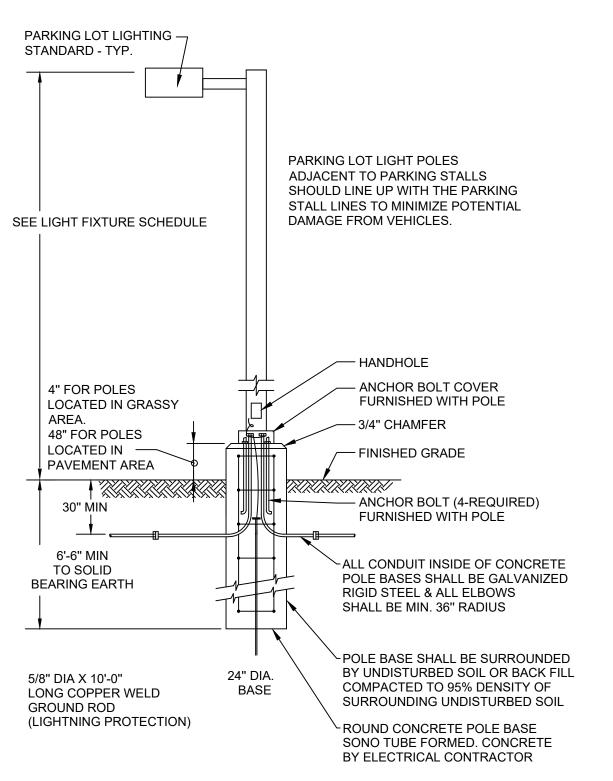
WEATHERPROOF



ELECTRICAL SITE PLAN NOTES:

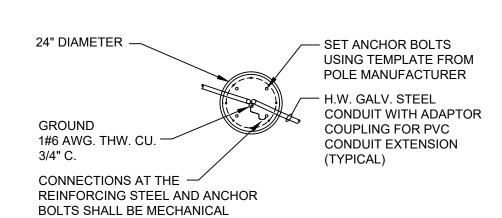
- 1. ALL UNDERGROUND SITE WORK CONDUIT TO BE MINIMUM 36" BELOW FINISHED GRADE AND GALVANIZED RIGID STEEL, MINIMUM CONDUIT 1" TRADE SIZE. MINIMUM WIRE SIZE FOR ALL SITE WORK WIRING SHALL BE #10 AWG.
- 2. ALL CUTTING, TRENCHING, CORING, BACKFILLING 8. ALL CUTTING OF EXISTING ASPHALT AND CONCRETE AND COMPACTING FOR THE ELECTRICAL INSTALLATION IS BY THE ELECTRICAL CONTRACTOR. ALL EXCESS DEBRIS FROM CUTTING, TRENCHING AND CORING SHALL BE COMPLETELY REMOVED FROM THE SITE BY THE ELECTRICAL CONTRACTOR. IF EXISTING SPOILS ARE UNSUITABLE, E.C. TO GAIN PERMISSION (IN WRITING) FROM THE ARCHITECT TO 9. E.C. SHALL VERIFY STUB-UP AREA FOR ALL REUSE EXISTING SPOILS.
- 3. ELECTRICAL CONTRACTOR SHALL BACKFILL ALL TRENCHES IN LAYERS OF 8" TO 95% DENSITY OF SURROUNDING UNDISTURBED SOIL FOR ALL TRENCHES. ELECTRICAL CONDUITS SHALL BE SURROUNDED WITH A MINIMUM OF 8" OF SAND.
- 4. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT STUBS, GROUND CONNECTIONS, ANCHOR BOLTS AND GROUND RODS. REFER TO 11. TIME-CLOCK CONTROLS FOR EXTERIOR LIGHTING HAVE A "CONCRETE BASE DETAILS" FOR ADDITIONAL REQUIREMENTS. CONCRETE BY ELECTRICAL CONTRACTOR.
- 5. ALL OPENINGS AND PENETRATIONS THROUGH FOUNDATION AND EXTERIOR WALLS CREATED BY FIXTURES AND CONDUITS SHALL BE FILLED WITH WATERPROOF MATERIAL TO PREVENT ANY MOISTURE FROM ENTERING THROUGH THE OPENING.
- 6. EACH POLE SHALL HAVE BUSSMANN IN-LINE FUSES (FUSED PER MANUFACTURER'S SPECIFICATIONS) FOR EACH CIRCUIT CONDUCTOR.

- 7. EACH POLE SHALL BE FURNISHED WITH MINIMUM OF 4" x 6" HAND HOLE AND A GROUNDING LUG CONNECTED TO POLE FOR GROUNDING CONDUCTOR. ALL POLES SHALL BE FURNISHED WITH BOLT COVERS.
- SURFACES SHALL BE DOUBLE ROW SAW CUT AND STRAIGHT FROM POINT TO POINT. ALL PATCHING OF EXISTING ASPHALT AND CONCRETE SURFACES SHALL BE PERFORMED BY ELECTRICAL CONTRACTOR.
- FIXTURES TO INSURE RACEWAY WILL FIT INSIDE CONCRETE BASES. REWORK AS REQUIRED (TYPICAL ALL BASES).
- 10. ALL CONDUIT FEEDERS AND BRANCH CIRCUITS UNDER ROADWAYS, DRIVEWAYS, SIDEWALKS AND PARKING SHALL BE 36" BELOW GRADE IN A 3" CONCRETE ENCASED, FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- CLOCK CAPABLE OF BEING PROGRAMMED FOR NOT FEWER THAN 7 DAYS, CAPANBLE OF BEING SET FOR SEVEN DIFFERENT DAY TPYE PER WEEK, SHALL INCORPORTE AN AUTOMATIC HOLIDAY SETBACK FEATURE, SHALL HAVE PROGRAM BACKUP CAPABILITIES THAT PREVENT THE LOSS OF PROGRAM AND TIME SETTING FOR A PERIOD OF NOT LESS THAN 10 HOURS IN THE EVENT THAT THE POWER IS INTERRUPTED. THE PARKING LOT LIGHTS SHALL BE CONTROLLED SO THAT THE TOTAL WATTAGE OF THE LIGHS IS AUATOMATICCLAY REDUCE BY NOT LESS THAT 50 PERCENT NOT LATER THAN ONE HOURS AFTER BUSINESS CLOSING TO NOT EAILIERS THAN ONE HOUR BEFORE BUSINESS OPENING.

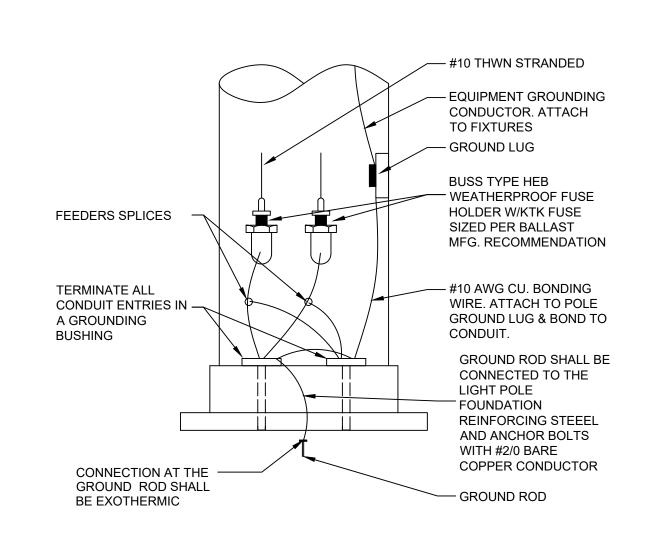


2 PARKING LOT LIGHT BASE DETAIL NO SCALE

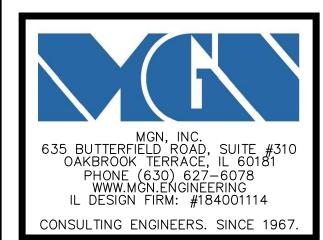
NOTE INSTALLING CONTRACTOR SHALL BE RESPONABLE FOR THE FOLLOWING: THE POLE BASE TO BE INSTALLED SHALL BE DESIGNED AND APPROVED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF ILLINOIS. (EFFECTIVE PROJECTED AREA, EPA WIND LOADING REQUIREMENTS TO BE DETERMINED. FOR FINAL BASE SIZE) DIMENSION INDICATED TO BE VERIFIED BY STRUCTURAL ENGINEER.



TOP VIEW OF PARKING LOT LIGHT BASE 3 WITH COVER PLATE REMOVED



PARKING LOT LIGHT WIRING DETAIL



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	PROJECT NO.:	25-184	
ı	DRAWN BY:	EJ	
ı	REVIEWED BY:	PN	

DRAWING TITLE:

ELECTRICAL SITE LIGHITNG PLAN

DRAWING NO .: