

Title	Palatine Hills Golf Course	12/05/2023
	by Jim Holder in Member District ADA Project Request	id. 44873393
	250 E Wood Street Palatine, Illinois 60067 United States 847-705-5131 ADAProjects@palatineparks.org	

Original Submission 12/05/2023

Score	n/a
Name	Jim Holder
Job Title	Superintendent of Parks & Planning
E-mail Address	adaprojects@palatineparks.org
Phone Number	847-705-5131
Park District	Palatine
Project Location	Palatine Hills Golf Course
Project Status	Alteration
Project Type	Routes and Surfaces
Routes and Surfaces- select a Project Category below:	Accessible Routes- Means of Egress Parking Spots Walking Surfaces
Benefits of the Project	Allows individuals with mobility issues to access the Clubhouse and Pro Shop from the parking lot. It also includes handicapped parking area improvements.
Items that will become ADA Compliant	Accessible route from parking lot and the handicapped parking areas.
The project is designed or constructed, or applies human resources, to comply with:	The 2010 Standards for Accessible Design The Illinois Accessibility Code

Upload Project Related Files, Photos, Videos or Audio

[00_PHGC_Calculations.pdf](#)

[01_Plan_Set_Palatine_HillsParking_Lot_Improvements_2023-04-05.pdf](#)

[02_5241.220_Quantities_Updated_11-3-2023.pdf](#)

[03_5241.220_Palatine_Hills_ADA_Improvements_Summary.pdf](#)

[04_Bid_Chicagoland_Paving.pdf](#)

[DJI_0868.JPG](#)

[DJI_0885.JPG](#)

Budget Table for ADA Related Expenses

[Budget Table.xlsx](#)

ADA Dollars Requested	24969.89
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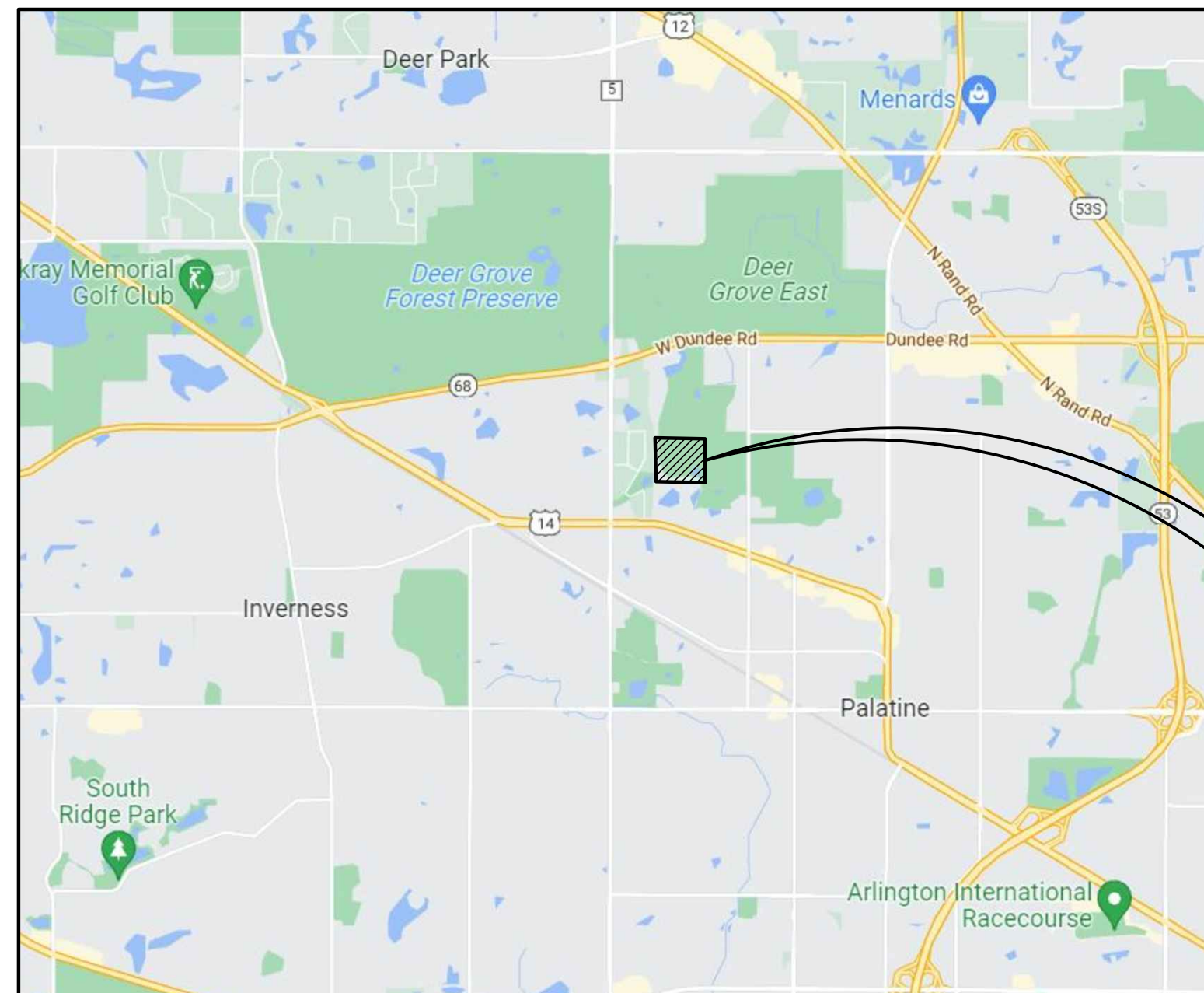
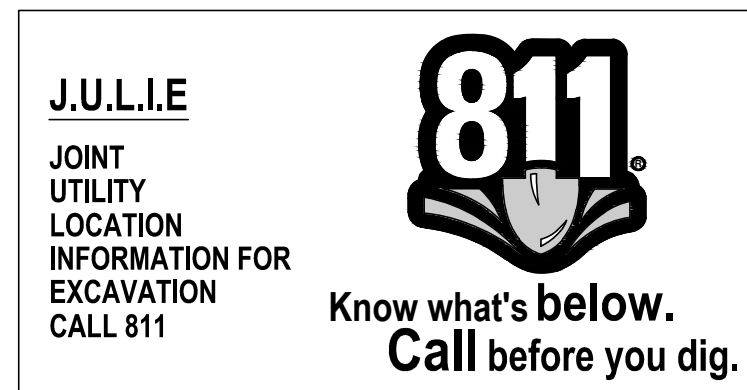
Notes related to requested amount

PALATINE PARK DISTRICT PALATINE HILLS GOLF COURSE PARKING LOT IMPROVEMENTS

PALATINE HILLS GOLF COURSE 512 WEST NORTHWEST HIGHWAY PALATINE, ILLINOIS 60067

STANDARD SYMBOLS

FEATURE	EXISTING	PROPOSED
BUFFALO BOX		
BUSH/SHRUB		
CATCH BASIN		
CLEANOUT		
COMBINE SEWER LINE		
CONTOUR		
CULVERT		
DITCH/SWALE		
ELECTRIC LINE		
ELECTRIC MANHOLE		
FENCE		
FIRE HYDRANT		
FLARED END SECTION		
GAS LINE		
GAS MANHOLE		
GAS VALVE		
INLET		
LIGHT POLE		
OVERHEAD WIRES		
POWER POLE		
R.O.W LINE		
R.O.W MARKER		
SANITARY FORCEMAIN LINE		
SANITARY SEWER LINE		
SANITARY SEWER MANHOLE		
SIGN		
SPOT ELEVATION		
STORM SEWER LINE		
STORM SEWER MANHOLE		
TELEPHONE LINE		
TELEPHONE MANHOLE		
TELEPHONE BOX/PEDESTAL		
TREE--CONIFEROUS (SIZE/TAG#)		
TREE--DECIDUOUS (SIZE/TAG#)		
VALVE BOX		
VALVE VAULT		
WATER VALVE		
WATERMAIN LINE		



LOCATION MAP
(Not to Scale)

BENCHMARK:
ELEVATIONS SHOWN HEREON ARE OBTAINED VIA GPS USING TRIMBLE VRS@NOW™ (NO PUBLISHED MONUMENT VERIFIED)
DATUM: NAVD88

SHEET INDEX

1. TITLE SHEET
2. EXISTING CONDITIONS/DEMOLITION PLAN
3. EXISTING CONDITIONS/DEMOLITION PLAN - CART PATH ALTERNATE #1
4. GEOMETRIC PLAN
5. PROPOSED IMPROVEMENTS PLAN - CART PATH ALTERNATE #1
6. GRADING AND UTILITY PLAN
7. GENERAL NOTES
8. SOIL EROSION & SEDIMENT CONTROL DETAILS
9. DETAILS

PROJECT LOCATION

512 W NORTHWEST HIGHWAY
PALATINE, ILLINOIS

TOPOGRAPHIC SURVEY BY:

GEWALT HAMILTON ASSOCIATES, INC.
625 FOREST EDGE DRIVE
VERNON HILLS, ILLINOIS 60061
TELEPHONE: 847-478-9700

PLANS PREPARED FOR:

PALATINE PARK DISTRICT
1103 N SMITH STREET
PALATINE, ILLINOIS 60067
TELEPHONE: 847-359-2079

PROFESSIONAL DESIGN FIRM LICENSE:

GEWALT HAMILTON ASSOCIATES, INC.
DESIGN FIRM - LAND SURVEYOR/PROF ENG
LICENSE NUMBER: 184.000922-0010
EXPIRES: 4/30/2023

COORDINATING/PERMITTING AGENCIES

VILLAGE OF PALATINE 947-202-6963

SIGNED: _____ P.E.
DONALD E. DIXON

DATE: _____

ILLINOIS LICENSE NO.: 062-051136

EXPIRATION DATE: NOVEMBER 30, 2023

NOTE: CONSTRUCTION MEANS, METHODS AND JOB SITE SAFETY IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR

ISSUE FOR BID

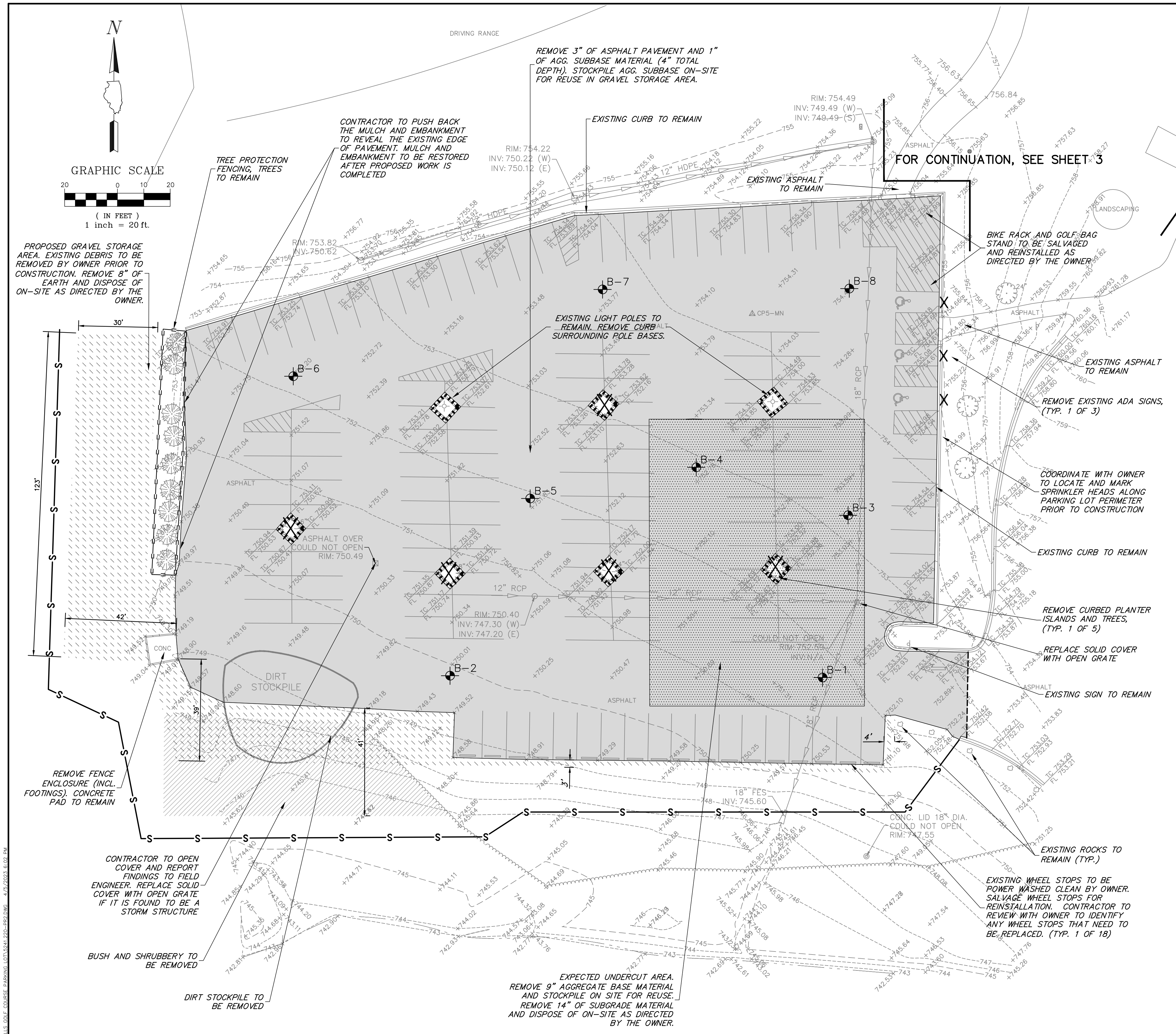
GHA GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive ■ Vernon Hills, IL. 60061
TEL 847.478.9700 ■ FAX 847.478.9701

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TITLE SHEET
PALATINE PARK DISTRICT - PARKING LOT IMPROVEMENTS
PALATINE HILLS GOLF COURSE
512 WEST NORTHWEST HIGHWAY, PALATINE, ILLINOIS 60067

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 5241.220-DT2.dwg	SHEET NUMBER:
DRAWN BY: AJP DATE: 04/05/23	GHA PROJECT # 5241.220
CHECKED BY: DED DATE: 04/05/23	SCALE: N.A.
	OF 9 SHEETS



- EXISTING CONDITION AND DEMOLITION NOTES**
- PRIOR TO STARTING ANY CONSTRUCTION, PROVIDE SOIL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLANS AND AS REQUIRED PER IEPA NPDES GUIDELINES. REFER TO NOTES AND DETAILS THROUGHOUT THE ENTIRE PLAN SET.
 - PRIOR TO STARTING ANY EXCAVATION WORK, PROVIDE TREE PROTECTION, PRESERVATION AND ROOT PRUNING AS SHOWN ON THE PLANS AND NOTES THROUGHOUT THE ENTIRE PLAN SET.
 - CONTRACTOR SHALL REFER TO SUBSURFACE SOIL EXPLORATION REPORT.
 - PALATINE G.C. IS UNDER THE JURISDICTION OF THE VILLAGE OF PALATINE. ALL WORK WITHIN THE PROJECT LIMITS WILL REQUIRE A PERMIT.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR FENCING THE ACTIVE WORK ZONE FROM THE PUBLIC AND PROTECTING THE PUBLIC FROM ANY CONSTRUCTION RELATED HAZARDS. AT A MINIMUM, ALL EXCAVATION, DEMOLITION AREAS AND OTHER AREAS POTENTIALLY HAZARDOUS TO PEDESTRIANS AND VEHICLES MUST BE PROTECTED.
 - AT ALL TIMES, MAIN DRIVE, LOADING DOCKS, AND DUMPSTER AREAS SHALL REMAIN OPEN AND UNOBSTRUCTED. TEMPORARY SHUT DOWN OF ONE TRAFFIC LANE AT A TIME WILL BE PERMITTED FOR SHORT TERM PERIODS AND SHALL BE COORDINATED WITH APPOINTED PROPERTY OWNER CONSTRUCTION STAFF. SHORT TERM CLOSINGS SHALL BE COMPLETED WITHIN THE WORK DAY AND RESTORED TO UNOBSTRUCTED ACCESS BY THE CLOSE OF THE WORK DAY.
 - TEMPORARY STONE OR ASPHALT PATHWAYS SHALL BE PROVIDED AS NEEDED THROUGHOUT THE COURSE OF CONSTRUCTION TO FACILITATE SAFE PEDESTRIAN AND VEHICULAR MOVEMENT. THE LONGITUDINAL SLOPE OF SUCH PATHS SHALL NOT EXCEED 5% AND CROSS SLOPES SHALL NOT EXCEED 2%. PROVIDE 6" CA-6 BASE AND 2" SURFACE ASPHALT.
 - THE EXISTING FACILITIES WILL REMAIN OPEN AND ACTIVELY USED.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION AND DISPOSAL OF ALL EXISTING IMPROVEMENTS ONSITE NECESSARY TO COMPLETE THE JOB. THESE IMPROVEMENTS INCLUDE, BUT ARE NOT LIMITED TO, EXISTING PAVEMENTS, CURBS, SIDEWALKS, UTILITIES, LIGHTING, LIGHT BASES, MANHOLES, FENCES, FOUNDATIONS, AND OTHER STRUCTURES WITHIN THE WORK AREA. EXCAVATE AND GRADE TO PROPOSED PAVEMENT AND BUILDING SUBBASE GRADES. (REFER TO FOUNDATION PLANS FOR PROPOSED BUILDING SUBBASE GRADES.) THESE ITEMS SHALL BE COMPLETELY REMOVED AND LEGALLY DISPOSED OF OFFSITE.
 - TEMPORARILY REMOVE, STORE AND PROTECT SIGN AND POSTS WITHIN AFFECTED WORK ZONE FOR REINSTALLATION. COORDINATE ONSITE STORAGE WITH PROPERTY OWNER.
 - THE CONTRACTOR SHALL INCLUDE ALL ASSOCIATED COSTS WITH THE REMOVAL, TRANSPORT, DISPOSAL, TESTING AND CERTIFICATION OF "UNCONTAMINATED SOIL" AS DEFINED UNDER 415 ILCS 5/3.160 INCLUDING ANY FEES, TAXES, OR SURCHARGES CHARGED BY OR THROUGH THE OPERATOR(S) OF CLEAN CONSTRUCTION OR DEMOLITION DEBRIS FILL OPERATIONS OR UNCONTAMINATED SOIL FILL OPERATIONS FOR THE ACCEPTANCE OF UNCONTAMINATED SOIL.
 - TREES ARE TO BE REMOVED BY THE PARK DISTRICT. ALL VEGETATION AND LANDSCAPED AREAS NOT SHOWN REMAINING SHALL BE REMOVED AND DISPOSED OF OFFSITE PROPERLY. REFER TO LANDSCAPE PLANS FOR DETAILED INFORMATION ON PLANTING REMOVALS AND TRANSPLANTS
 - THE CONTRACTOR SHALL SUBMIT TO THE OWNER AND / OR CITY A CONSTRUCTION STAGING AND FENCING PLAN. PEDESTRIAN ACCESS CONFORMING TO ADA STANDARDS SHALL BE MAINTAINED ON ALL ADA ROUTES IMPACTED BY CONSTRUCTION AT ALL TIMES.
 - EXISTING TOPOGRAPHY REPRESENTS THE PROPOSED CONTOURS SHOWN ON PLANS BY GEWALT HAMILTON ASSOCIATES, INC. DATED JANUARY 12TH, 2023.
 - EXISTING CONDITION SURVEY PROVIDED BY GEWALT HAMILTON ASSOCIATES, INC. DATED JANUARY 12TH, 2023.

REMOVAL LEGEND

- ASPHALT SURFACE REMOVAL (3")
- EXPECTED UNDERCUT AREA
- EARTH/GRAVEL REMOVAL
- CLEARING AND GRUBBING
- SIGN REMOVAL
- TREE/SHRUB REMOVAL
- PERIMETER EROSION BARRIER
- TREE TRUNK PROTECTION FENCE (AROUND TREES OR IN A LINE)
- CURB/COMBINATION CURB AND GUTTER REMOVAL
- PAVEMENT SAWCUT
- SOIL BORING

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 TEL 847.478.9700 ■ FAX 847.478.9701

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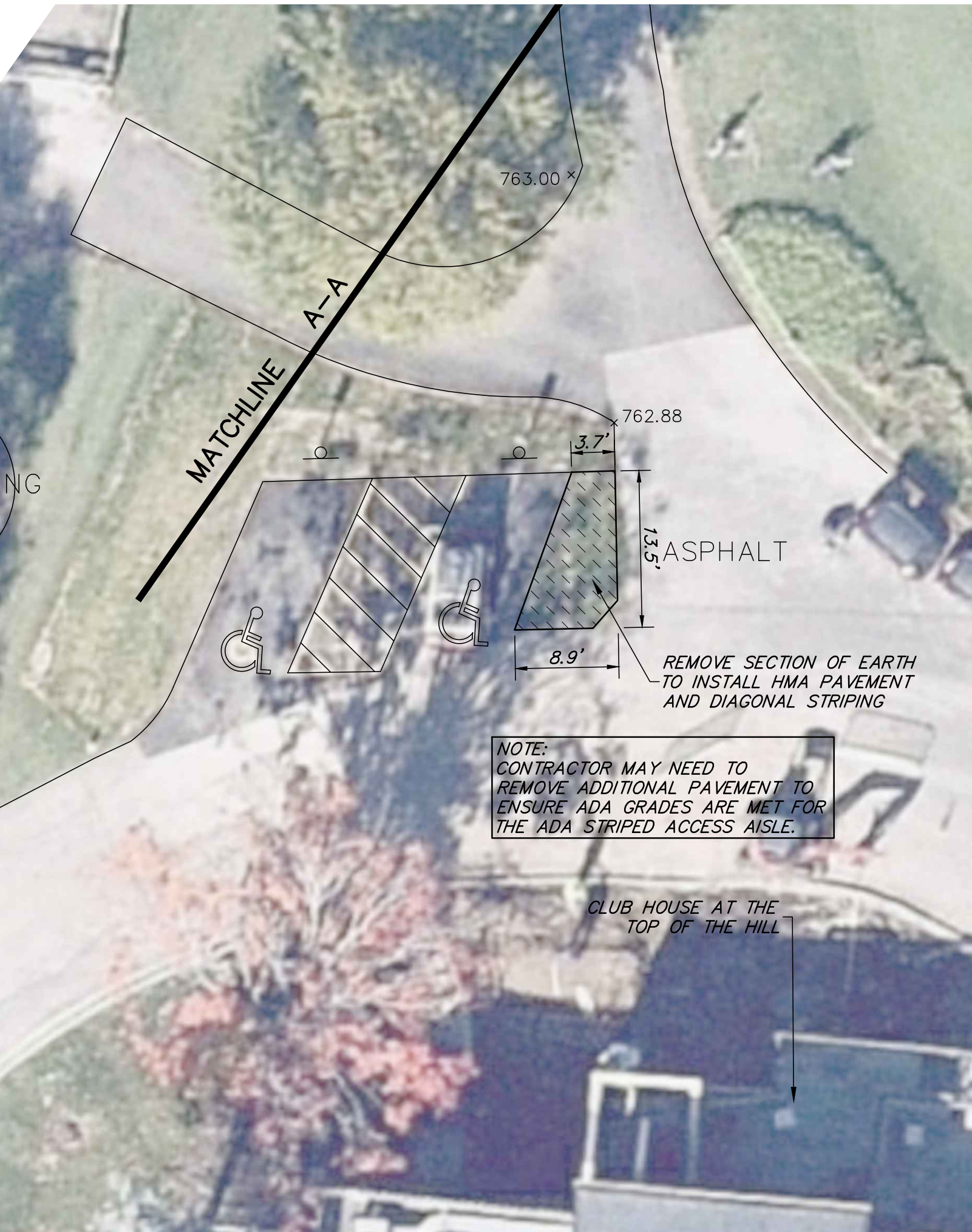
EXISTING CONDITIONS/DEMOLITION PLAN
PALATINE PARK DISTRICT - PARKING LOT IMPROVEMENTS
PALATINE HILLS GOLF COURSE
512 WEST NORTHWEST HIGHWAY, PALATINE, ILLINOIS 60067

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DRAWN BY: AJP	GHA PROJECT #
DATE: 04/05/23	5241.220
CHECKED BY: DED	SCALE:
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- EXISTING CONDITION AND DEMOLITION NOTES**
1. PRIOR TO STARTING ANY CONSTRUCTION, PROVIDE SOIL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLANS AND AS REQUIRED PER IEPA NPDES GUIDELINES. REFER TO NOTES AND DETAILS THROUGHOUT THE ENTIRE PLAN SET.
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 13. THE CONTRACTOR SHALL SUBMIT TO THE OWNER AND / OR CITY A CONSTRUCTION STAGING AND FENCING PLAN. PEDESTRIAN ACCESS CONFORMING TO ADA STANDARDS SHALL BE MAINTAINED ON ALL ADA ROUTES IMPACTED BY CONSTRUCTION AT ALL TIMES.
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 15. EXISTING CONDITION SURVEY PROVIDED BY GEWALT HAMILTON ASSOCIATES, INC. DATED JANUARY 12TH, 2023.



- REMOVAL LEGEND**
- ASPHALT CART PATH SURFACE REMOVAL (3")
 - FULL DEPTH ASPHALT CART PATH REMOVAL (INC. AGG. BASE)
 - EARTH/GRAVEL REMOVAL
 - PAVEMENT SAWCUT
 - EXISTING SPOT ELEVATION
 - EXISTING PAVEMENT SLOPES

CART PATH ALTERNATE NO. 1

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 625 Forest Edge Drive ■ Vernon Hills, IL. 60061
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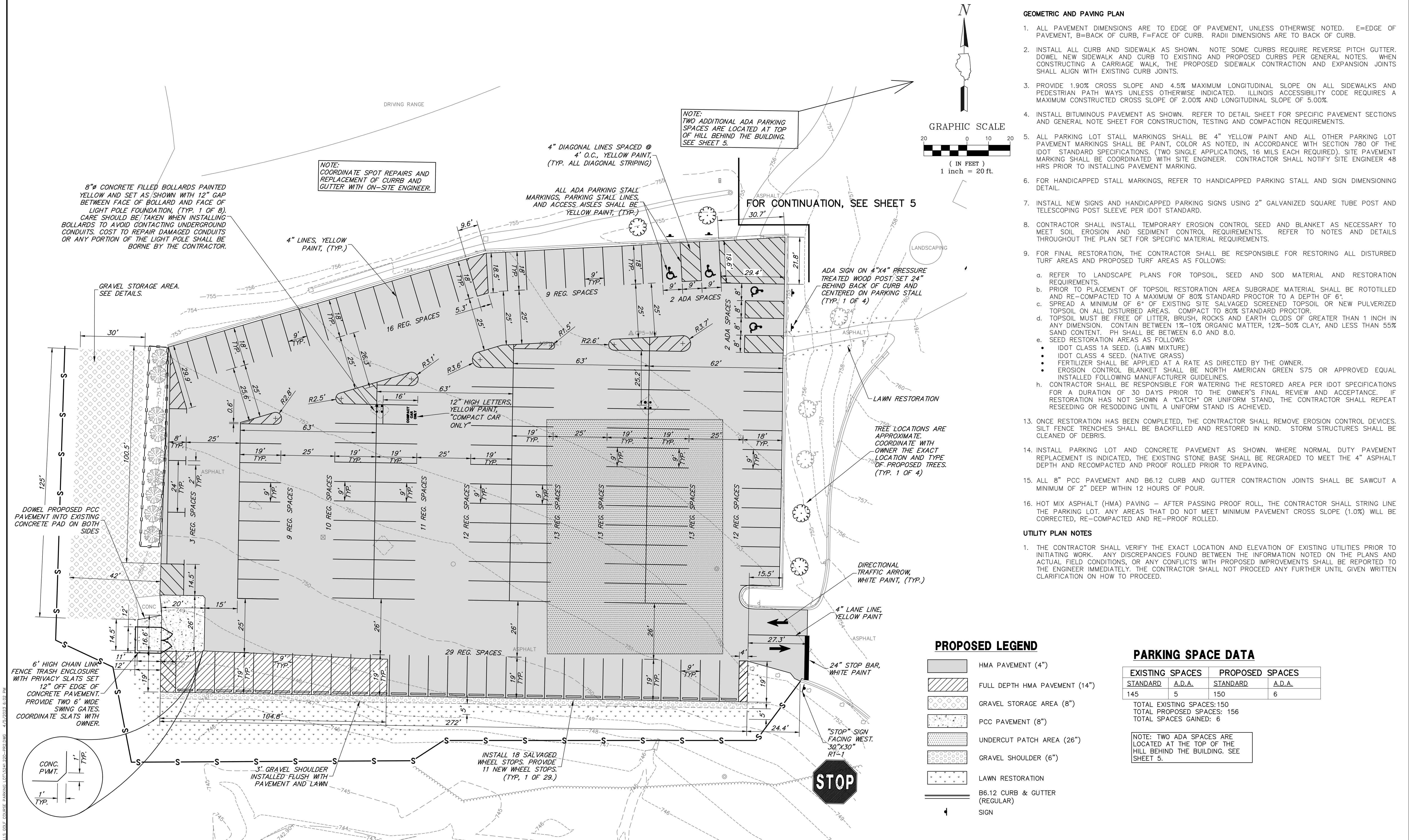
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EXISTING CONDITIONS/DEMOLITION PLAN
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© 2023 GHA 5241.220 PALATINE HILLS GOLF COURSE PARKING LOT IMPROVEMENTS 4/27/2023 6:07 PM



GEOMETRIC AND PAVING PLAN

- ALL PAVEMENT DIMENSIONS ARE TO EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. E=EDGE OF PAVEMENT, B=BACK OF CURB, F=FACE OF CURB. RADII DIMENSIONS ARE TO BACK OF CURB.
- INSTALL ALL CURB AND SIDEWALK AS SHOWN. NOTE SOME CURBS REQUIRE REVERSE PITCH GUTTER. DOWEL NEW SIDEWALK AND CURB TO EXISTING AND PROPOSED CURBS PER GENERAL NOTES. WHEN CONSTRUCTING A CARRIAGE WALK, THE PROPOSED SIDEWALK CONTRACTION AND EXPANSION JOINTS SHALL ALIGN WITH EXISTING CURB JOINTS.
- PROVIDE 1.0% CROSS SLOPE AND 4.5% MAXIMUM LONGITUDINAL SLOPE ON ALL SIDEWALKS AND PEDESTRIAN PATHWAYS UNLESS OTHERWISE INDICATED. ILLINOIS ACCESSIBILITY CODE REQUIRES A MAXIMUM CONSTRUCTED CROSS SLOPE OF 2.00% AND LONGITUDINAL SLOPE OF 5.00%.
- INSTALL BITUMINOUS PAVEMENT AS SHOWN. REFER TO DETAIL SHEET FOR SPECIFIC PAVEMENT SECTIONS AND GENERAL NOTE SHEET FOR CONSTRUCTION, TESTING AND COMPACTION REQUIREMENTS.
- ALL PARKING LOT STALL MARKINGS SHALL BE 4" YELLOW PAINT AND ALL OTHER PARKING LOT PAVEMENT MARKINGS SHALL BE PAINT, COLOR AS NOTED, IN ACCORDANCE WITH SECTION 780 OF THE IDOT STANDARD SPECIFICATIONS. (TWO SINGLE APPLICATIONS, 16 MILS EACH REQUIRED). SITE PAVEMENT MARKING SHALL BE COORDINATED WITH SITE ENGINEER. CONTRACTOR SHALL NOTIFY SITE ENGINEER 48 HRS PRIOR TO INSTALLING PAVEMENT MARKING.
- FOR HANDICAPPED STALL MARKINGS, REFER TO HANDICAPPED PARKING STALL AND SIGN DIMENSIONING DETAIL.
- INSTALL NEW SIGNS AND HANDICAPPED PARKING SIGNS USING 2" GALVANIZED SQUARE TUBE POST AND TELESCOPING POST SLEEVE PER IDOT STANDARD.
- CONTRACTOR SHALL INSTALL TEMPORARY EROSION CONTROL SEED AND BLANKET AS NECESSARY TO MEET SOIL EROSION AND SEDIMENT CONTROL REQUIREMENTS. REFER TO NOTES AND DETAILS THROUGHOUT THE PLAN SET FOR SPECIFIC MATERIAL REQUIREMENTS.
- FOR FINAL RESTORATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL DISTURBED TURF AREAS AND PROPOSED TURF AREAS AS FOLLOWS:
 - REFER TO LANDSCAPE PLANS FOR TOPSOIL, SEED AND SOD MATERIAL AND RESTORATION REQUIREMENTS.
 - PRIOR TO PLACEMENT OF TOPSOIL RESTORATION AREA SUBGRADE MATERIAL SHALL BE ROTOTILLED AND RE-COMPACTED TO A MAXIMUM OF 80% STANDARD PROCTOR TO A DEPTH OF 6".
 - SPREAD A MINIMUM OF 6" OF EXISTING SITE SALVAGED SCREENED TOPSOIL OR NEW PULVERIZED TOPSOIL ON ALL DISTURBED AREAS. COMPACT TO 80% STANDARD PROCTOR.
 - TOPSOIL MUST BE FREE OF LITTER, BRUSH, ROCKS AND EARTH CLODS OF GREATER THAN 1 INCH IN ANY DIMENSION. CONTAIN BETWEEN 1%-10% ORGANIC MATTER, 12%-50% CLAY, AND LESS THAN 55% SAND CONTENT. PH SHALL BE BETWEEN 6.0 AND 8.0.
 - SEED RESTORATION AREAS AS FOLLOWS:
 - IDOT CLASS 1A SEED. (LAWN MIXTURE)
 - IDOT CLASS 4 SEED. (NATIVE GRASS)
 - FERTILIZER SHALL BE APPLIED AT A RATE AS DIRECTED BY THE OWNER.
 - EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN S75 OR APPROVED EQUAL INSTALLED FOLLOWING MANUFACTURER GUIDELINES.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THE RESTORED AREA PER IDOT SPECIFICATIONS FOR A DURATION OF 30 DAYS PRIOR TO THE OWNER'S FINAL REVIEW AND ACCEPTANCE. IF RESTORATION HAS NOT SHOWN A "CATCH" OR UNIFORM STAND, THE CONTRACTOR SHALL REPEAT RESEEDING OR RESEEDING UNTIL A UNIFORM STAND IS ACHIEVED.
- ONCE RESTORATION HAS BEEN COMPLETED, THE CONTRACTOR SHALL REMOVE EROSION CONTROL DEVICES. SILT FENCE TRENCHES SHALL BE BACKFILLED AND RESTORED IN KIND. STORM STRUCTURES SHALL BE CLEANED OF DEBRIS.
- INSTALL PARKING LOT AND CONCRETE PAVEMENT AS SHOWN. WHERE NORMAL DUTY PAVEMENT REPLACEMENT IS INDICATED, THE EXISTING STONE BASE SHALL BE REGRADED TO MEET THE 4" ASPHALT DEPTH AND RECOMPACTED AND PROOF ROLLED PRIOR TO REPAVING.
- ALL 8" PCC PAVEMENT AND B6.12 CURB AND GUTTER CONTRACTION JOINTS SHALL BE SAWCUT A MINIMUM OF 2" DEEP WITHIN 12 HOURS OF POUR.
- HOT MIX ASPHALT (HMA) PAVING - AFTER PASSING PROOF ROLL, THE CONTRACTOR SHALL STRING LINE THE PARKING LOT. ANY AREAS THAT DO NOT MEET MINIMUM PAVEMENT CROSS SLOPE (1.0%) WILL BE CORRECTED, RE-COMPACTED AND RE-PROOF ROLLED.

UTILITY PLAN NOTES

- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO INITIATING WORK. ANY DISCREPANCIES FOUND BETWEEN THE INFORMATION NOTED ON THE PLANS AND ACTUAL FIELD CONDITIONS, OR ANY CONFLICTS WITH PROPOSED IMPROVEMENTS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL NOT PROCEED ANY FURTHER UNTIL GIVEN WRITTEN CLARIFICATION ON HOW TO PROCEED.

PROPOSED LEGEND

- HMA PAVEMENT (4")
- FULL DEPTH HMA PAVEMENT (14")
- GRAVEL STORAGE AREA (8")
- PCC PAVEMENT (8")
- UNDERCUT PATCH AREA (26")
- GRAVEL SHOULDER (6")
- LAWN RESTORATION
- B6.12 CURB & GUTTER (REGULAR)
- SIGN

PARKING SPACE DATA

EXISTING SPACES		PROPOSED SPACES	
STANDARD	A.D.A.	STANDARD	A.D.A.
145	5	150	6

TOTAL EXISTING SPACES: 150
 TOTAL PROPOSED SPACES: 156
 TOTAL SPACES GAINED: 6

NOTE: TWO ADA SPACES ARE LOCATED AT THE TOP OF THE HILL BEHIND THE BUILDING. SEE SHEET 5.

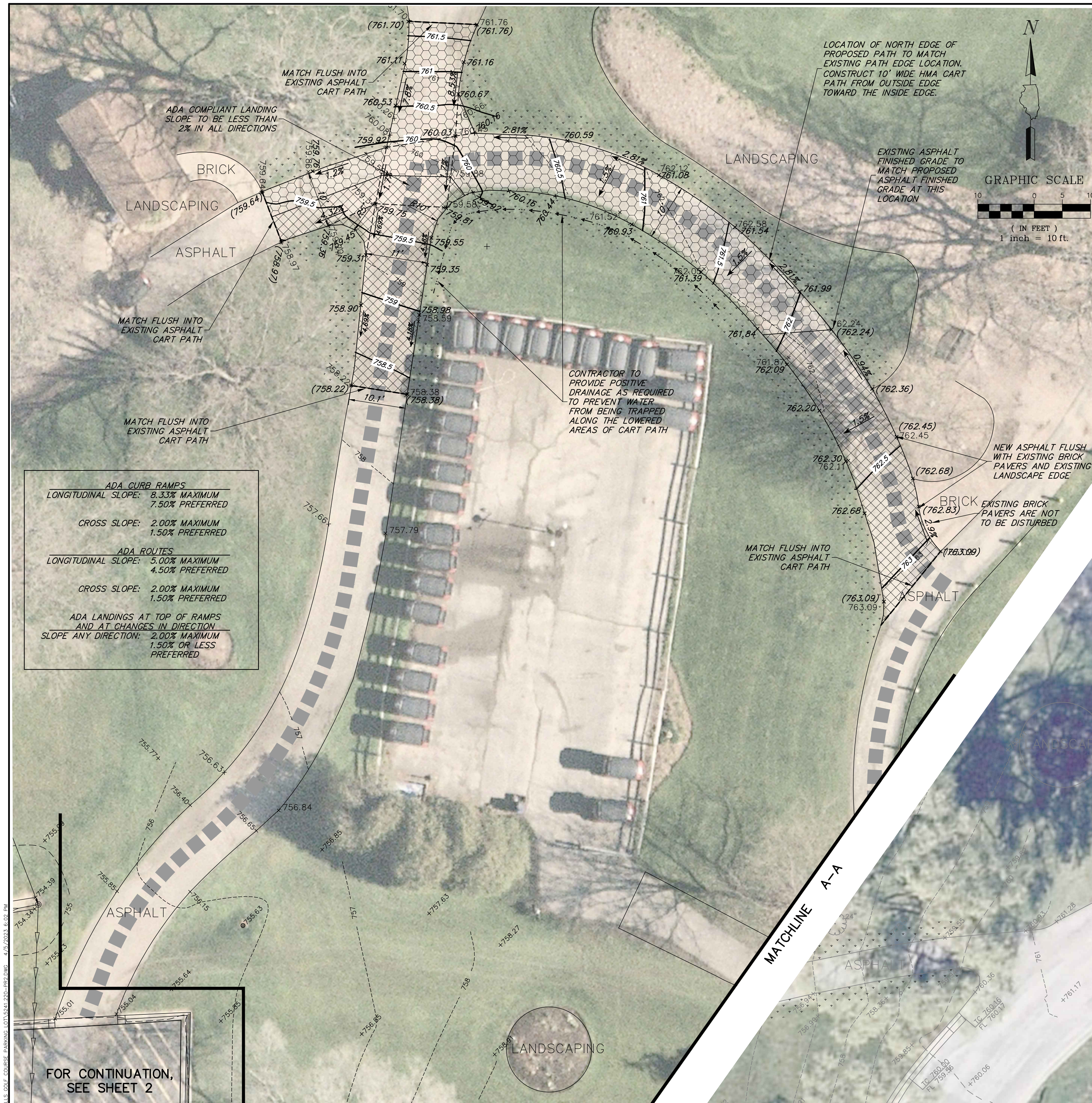
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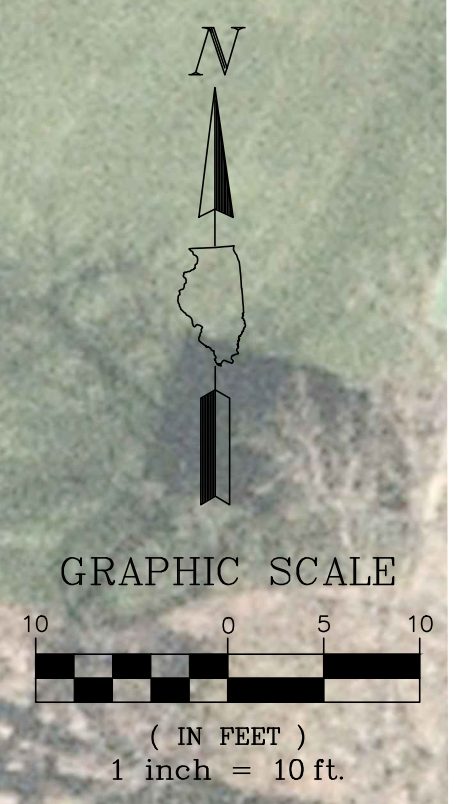
GEOMETRIC PLAN
PALATINE PARK DISTRICT - PARKING LOT IMPROVEMENTS
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 OF 9 SHEETS



- ### GEOMETRIC AND PAVING PLAN
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 - ALL PARKING LOT STALL MARKINGS SHALL BE 4" YELLOW PAINT AND ALL OTHER PARKING LOT PAVEMENT MARKINGS SHALL BE PAINT, COLOR AS NOTED, IN ACCORDANCE WITH SECTION 780 OF THE IDOT STANDARD SPECIFICATIONS. (TWO SINGLE APPLICATIONS, 16 MILS EACH REQUIRED). SITE PAVEMENT MARKING SHALL BE COORDINATED WITH SITE ENGINEER. CONTRACTOR SHALL NOTIFY SITE ENGINEER 48 HRS PRIOR TO INSTALLING PAVEMENT MARKING.
 - FOR HANDICAPPED STALL MARKINGS, REFER TO HANDICAPPED PARKING STALL AND SIGN DIMENSIONING DETAIL.
 - INSTALL NEW SIGNS AND HANDICAPPED PARKING SIGNS USING 2" GALVANIZED SQUARE TUBE POST AND TELESCOPING POST SLEEVE PER IDOT STANDARD.
 - CONTRACTOR SHALL INSTALL TEMPORARY EROSION CONTROL SEED AND BLANKET AS NECESSARY TO MEET SOIL EROSION AND SEDIMENT CONTROL REQUIREMENTS. REFER TO NOTES AND DETAILS THROUGHOUT THE PLAN SET FOR SPECIFIC MATERIAL REQUIREMENTS.
 - FOR FINAL RESTORATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL DISTURBED TURF AREAS AND PROPOSED TURF AREAS AS FOLLOWS:
 - REFER TO LANDSCAPE PLANS FOR TOPSOIL, SEED AND SOD MATERIAL AND RESTORATION REQUIREMENTS.
 - PRIOR TO PLACEMENT OF TOPSOIL RESTORATION AREA SUBGRADE MATERIAL SHALL BE ROTOTILLED AND RE-COMPACTED TO A MAXIMUM OF 80% STANDARD PROCTOR TO A DEPTH OF 6".
 - SPREAD A MINIMUM OF 6" OF EXISTING SITE SALVAGED SCREENED TOPSOIL OR NEW PULVERIZED TOPSOIL ON ALL DISTURBED AREAS. COMPACT TO 80% STANDARD PROCTOR.
 - TOPSOIL MUST BE FREE OF LITTER, BRUSH, ROCKS AND EARTH CLODS OF GREATER THAN 1 INCH IN ANY DIMENSION. CONTAIN BETWEEN 1%-10% ORGANIC MATTER, 12%-50% CLAY, AND LESS THAN 55% SAND CONTENT. PH SHALL BE BETWEEN 6.0 AND 8.0.
 - SEED RESTORATION AREAS AS FOLLOWS:
 - IDOT CLASS 1A SEED. (LAWN MIXTURE)
 - IDOT CLASS 4 SEED. (NATIVE GRASS)
 - FERTILIZER SHALL BE APPLIED AT A RATE AS DIRECTED BY THE OWNER.
 - EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN S75 OR APPROVED EQUAL INSTALLED FOLLOWING MANUFACTURER GUIDELINES.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THE RESTORED AREA PER IDOT SPECIFICATIONS FOR A DURATION OF 30 DAYS PRIOR TO THE OWNER'S FINAL REVIEW AND ACCEPTANCE. IF RESTORATION HAS NOT SHOWN A "CATCH" OR UNIFORM STAND, THE CONTRACTOR SHALL REPEAT RESEEDING OR RESODDING UNTIL A UNIFORM STAND IS ACHIEVED.
 - ONCE RESTORATION HAS BEEN COMPLETED, THE CONTRACTOR SHALL REMOVE EROSION CONTROL DEVICES. SILT FENCE TRENCHES SHALL BE BACKFILLED AND RESTORED IN KIND. STORM STRUCTURES SHALL BE CLEANED OF DEBRIS.
 - INSTALL PARKING LOT AND CONCRETE PAVEMENT AS SHOWN. WHERE NORMAL DUTY PAVEMENT REPLACEMENT IS INDICATED, THE EXISTING STONE BASE SHALL BE REGRADED TO MEET THE 4" ASPHALT DEPTH AND RECOMPACTED AND PROOF ROLLED PRIOR TO REPAVING.
 - HOT MIX ASPHALT (HMA) PAVING - AFTER PASSING PROOF ROLL, THE CONTRACTOR SHALL STRING LINE THE PARKING LOT. ANY AREAS THAT DO NOT MEET MINIMUM PAVEMENT CROSS SLOPE (1.0%) WILL BE CORRECTED, RE-COMPACTED AND RE-PROOF ROLLED.



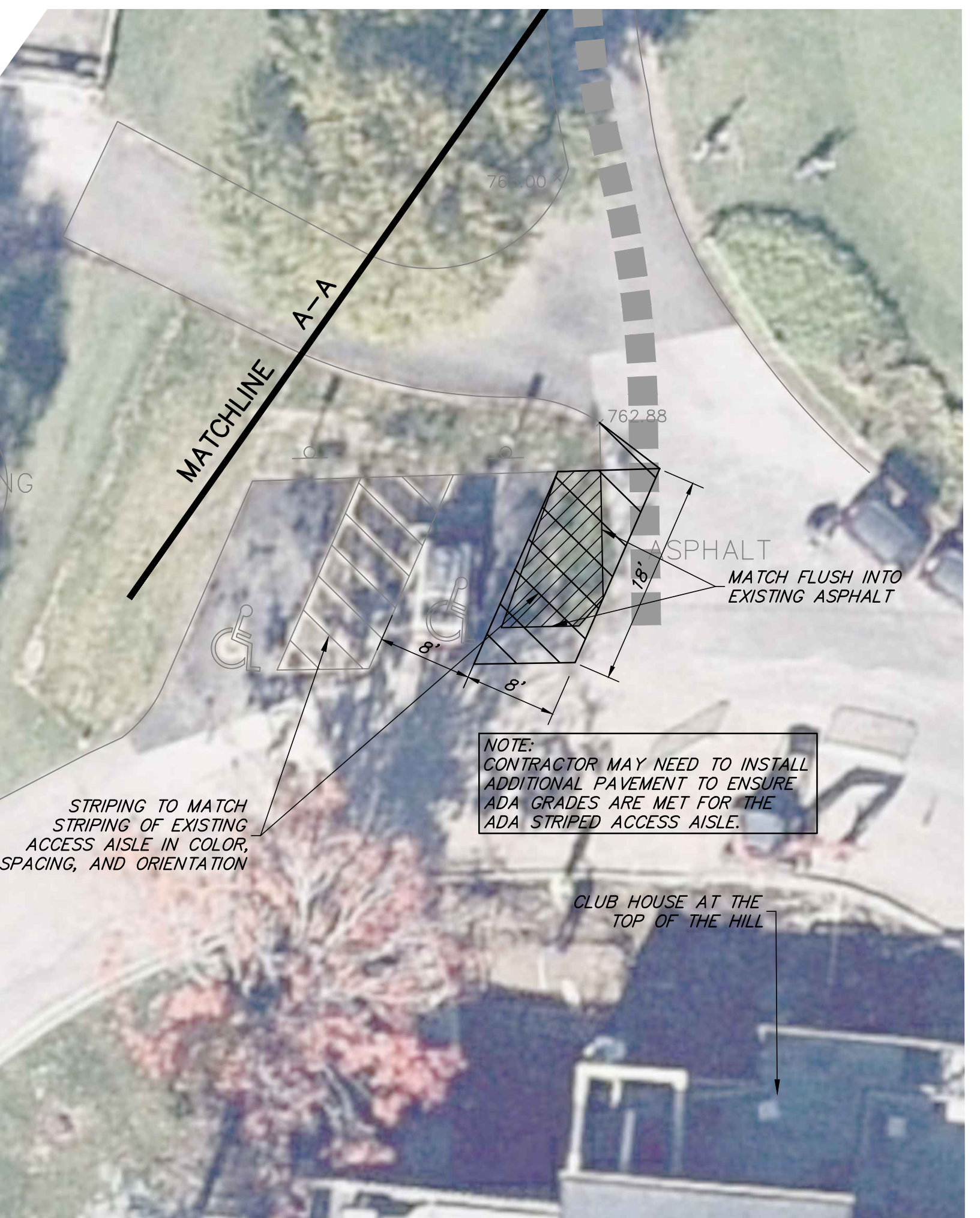
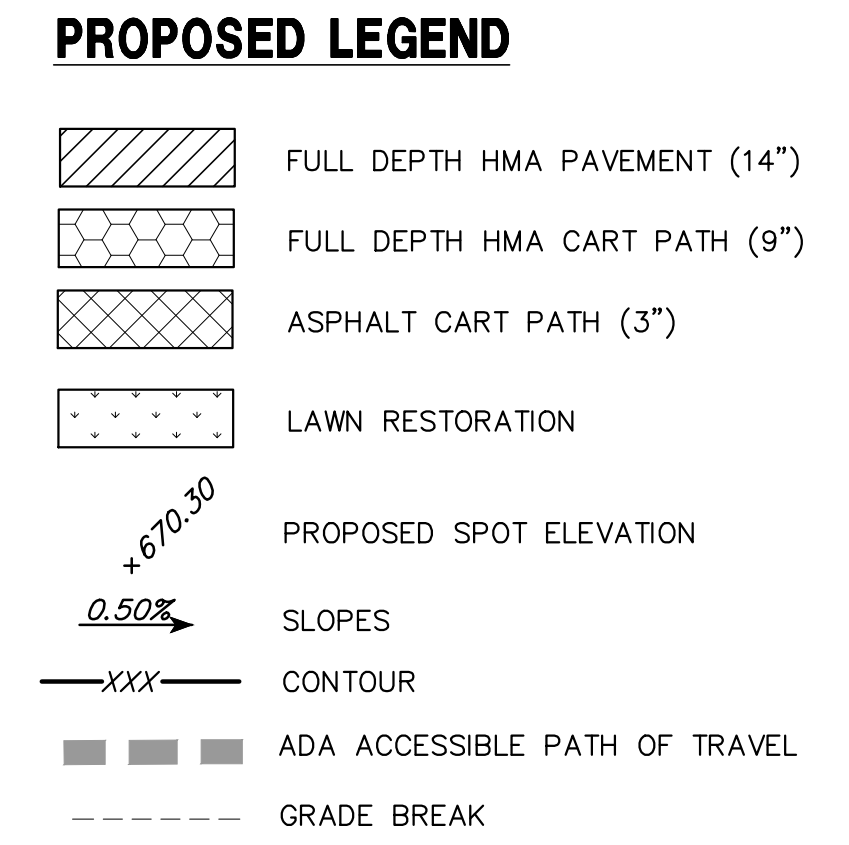
ADA CURB RAMPS
 LONGITUDINAL SLOPE: 8.33% MAXIMUM
 7.50% PREFERRED

CROSS SLOPE: 2.00% MAXIMUM
 1.50% PREFERRED

ADA ROUTES
 LONGITUDINAL SLOPE: 5.00% MAXIMUM
 4.50% PREFERRED

CROSS SLOPE: 2.00% MAXIMUM
 1.50% PREFERRED

**ADA LANDINGS AT TOP OF RAMPS
 AND AT CHANGES IN DIRECTION**
 SLOPE ANY DIRECTION: 2.00% MAXIMUM
 1.50% OR LESS PREFERRED



FOR CONTINUATION,
SEE SHEET 2

GHA GEWALT HAMILTON ASSOCIATES, INC.
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PROPOSED IMPROVEMENTS PLAN

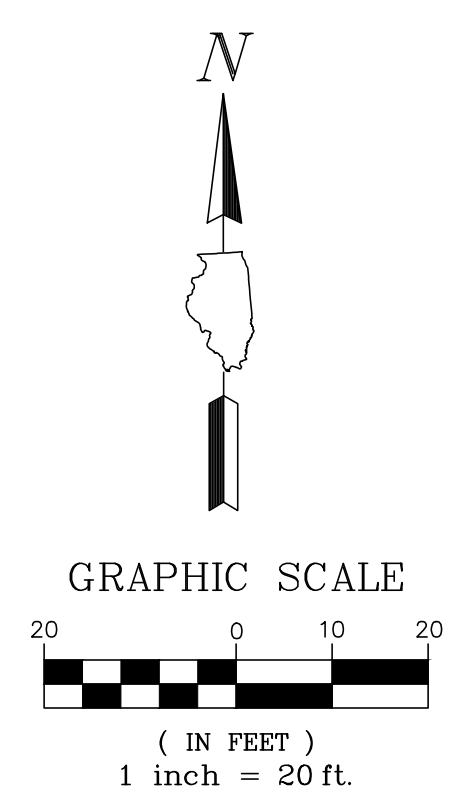
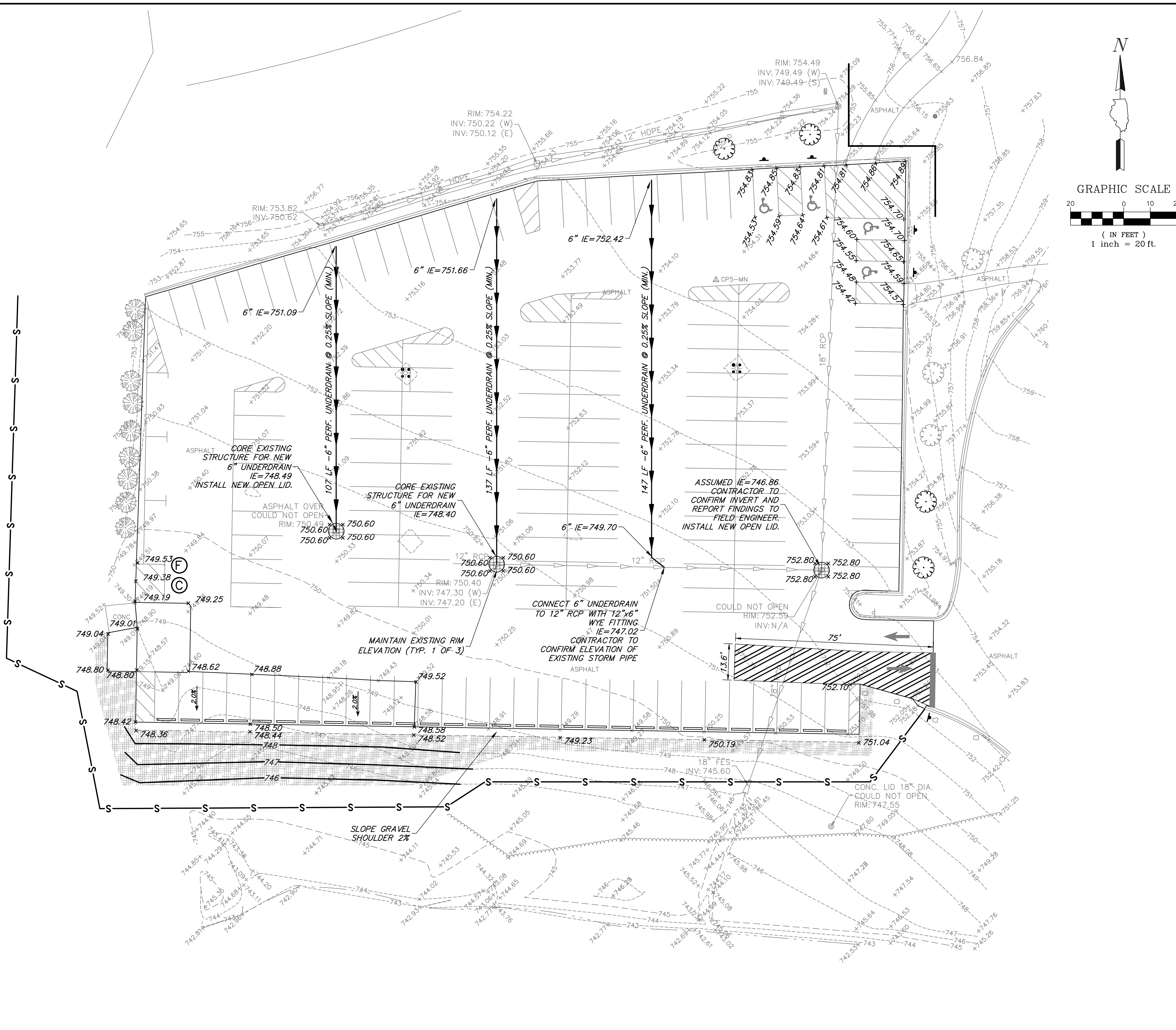
PALATINE PARK DISTRICT - PARKING LOT IMPROVEMENTS

PALATINE HILLS GOLF COURSE

512 WEST NORTHWEST HIGHWAY, PALATINE, ILLINOIS 60067

NO.	BY	DATE	REVISION

FILE: 5241.220-PR2.dwg	SHEET NUMBER:
DRAWN BY: AJP	GHA PROJECT #
DATE: 04/05/23	5241.220
CHECKED BY: DED	SCALE:
DATE: 04/05/23	1"=10'
	OF 9 SHEETS



GRADING PLAN NOTES

- PRIOR TO STARTING ANY CONSTRUCTION, PROVIDE SOIL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLANS AND AS REQUIRED PER IEPA NPDES GUIDELINES. REFER TO NOTES AND DETAILS THROUGHOUT THE ENTIRE PLAN SET.
- PRIOR TO STARTING ANY EXCAVATION WORK, PROVIDE TREE PROTECTION, PRESERVATION AND ROOT PRUNING AS SHOWN ON THE PLANS AND NOTES THROUGHOUT THE ENTIRE PLAN SET.
- CONTRACTOR SHALL REFER TO SUBSURFACE SOIL EXPLORATION REPORT.
- REFER TO GENERAL NOTES FOR GRADING, COMPACTION AND PROOF ROLL REQUIREMENTS.
- HANDICAP ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED BETWEEN 1.0% AND 1.90% MAXIMUM SLOPES IN ANY ONE DIRECTION. ILLINOIS ACCESSIBILITY CODE PERMITS A MAXIMUM CONSTRUCTED SLOPE OF 2.00%.
- CRUSHED CONCRETE MEETING IDOT CERTIFICATIONS FOR THE DESIGN PLAN GRADATIONS FOR NON-POROUS PAVEMENT AND SIDEWALK STONE BASE, STRUCTURAL FILL, AND TRENCH BACKFILL WILL BE PERMITTED.
- CRUSHED CONCRETE MAY NOT BE USED FOR UNDERDRAIN TRENCH OR POROUS FILL CONDITIONS.
- THE CONTRACTOR SHALL IMPORT OR EXPORT SOIL AS NECESSARY TO CONSTRUCT THE SITE TO SPECIFIED PLAN GRADES. SUCH WORK IS CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR SUCH WORK. MINOR ADJUSTMENTS TO GRADES CAN BE ACCOMMODATED WITH PROJECT ENGINEER APPROVAL.
- THE CONTRACTOR SHALL INCLUDE ALL ASSOCIATED COSTS WITH THE REMOVAL, TRANSPORT, DISPOSAL, TESTING AND CERTIFICATION OF "UNCONTAMINATED SOIL" AS DEFINED UNDER 415 ILCS 5/3.160 INCLUDING ANY FEES, TAXES, OR SURCHARGES CHARGED BY OR THROUGH THE OPERATOR(S) OF CLEAN CONSTRUCTION OR DEMOLITION DEBRIS FILL OPERATIONS OR UNCONTAMINATED SOIL FILL OPERATIONS FOR THE ACCEPTANCE OF UNCONTAMINATED SOIL.
- ALL STRUCTURES SHALL BE ADJUSTED TO MEET FINISHED TURF AND PAVEMENT GRADES.
- REFER TO SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS FOR SEED AND BLANKET REQUIREMENTS FOR TEMPORARY STABILIZATION.
- REFER TO GEOMETRIC PLAN OR LANDSCAPE PLAN FOR FINAL RESTORATION REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE THE FOLLOWING AS-CONSTRUCTED DOCUMENTS AT THE CONCLUSION OF THE PROJECT:
 - PARKING LOT AND HARD SURFACES
 - TOP OF CURB AND FLOWLINE ELEVATIONS AT SIMILAR LOCATIONS TO PROPOSED GRADING.
 - SPOT ELEVATIONS AT SUMMIT / HIGH AND LOW POINTS.
 - ADA PARKING STALLS, SIDEWALK RAMPS, AND ADA ROUTES
 - PROVIDE 6 SPOT ELEVATIONS WITHIN THE PARKING STALL 3 ALONG THE FRONT AND REAR OF THE STALL AT 8 FOOT SPACING ALONG THE STALL PAVEMENT MARKINGS.
 - PROVIDE 4 SPOT GRADES PER SQUARE AT LANDINGS AND ANY TAMPERS OR RAMPS.
 - PROVIDE SPOT ELEVATIONS ALONG ROUTE AT MAXIMUM 10 FOOT SPACING ON BOTH SIDES OF THE PATH TO CONFIRM CROSS AND LONGITUDINAL SLOPES REQUIREMENTS HAVE BEEN MET.
- PROVIDE MAKEUP CA-6 STONE, FINE GRADING AND RECOMPACTION OF EXISTING STONE BASE. COMPACT EXISTING BASE TO 95% MODIFIED PROCTOR DENSITY (ASTM D-1557). PRIOR TO APPROVAL OF THE STONE BASE, ALL PAVEMENT AREAS WILL BE PROOF ROLLED. ANY AREAS FOUND TO DEFLECT SHALL BE SCARIFIED AND RECOMPACTED AS DIRECTED BY THE ENGINEER, UNTIL THIS STANDARD IS ACHIEVED.
- CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE TO ALL INLETS AND CATCHBASINS. AREAS OF SURFACE PONDING SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- ALL LAWN AREAS DISTURBED AS A RESULT OF CONSTRUCTION SHALL BE RESTORED TO PRECONSTRUCTION LAWN CONDITION FOLLOWING RESTORATION REQUIREMENTS.

GRADING LEGEND

- TOP OF CURB FLOW LINE
- PROPOSED SPOT ELEVATION
- CONTOUR
- STRUCTURE ADJUSTMENT
- SUMMITS
- SLOPES
- SWALES
- OVERLAND FLOW ROUTE
- ROCK CONSTRUCTION ENTRANCE
- SILT FENCE INSTALLATION
- INLET FILTER BASKET
- PROPOSED UNDERDRAIN
- PORTABLE RESTROOM FACILITY
- CONCRETE WASHOUT
- TOPSOIL FURNISH AND PLACE, VARIABLE D SEEDING, CLASS 7
- EROSION CONTROL BLANKET NAG S75 (4:1 SLOPES)

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GRADING AND UTILITY PLAN
PALATINE PARK DISTRICT - PARKING LOT IMPROVEMENTS
PALATINE HILLS GOLF COURSE
512 WEST NORTHWEST HIGHWAY, PALATINE, ILLINOIS 60067

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6

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE PERFORMED ACCORDING TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION, THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" LATEST EDITION, THE DETAILS IN THESE PLANS, THE CONTRACT DOCUMENTS, ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, THE IEPA AND ORDINANCES OF AUTHORITIES HAVING JURISDICTION AND ALL ADDENDA THERE TO.
- 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 NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE PRIOR TO ORDERING MATERIALS. IN ADDITION, THE CONTRACTOR MUST VERIFY THE LINE AND GRADES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, STANDARD 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 OMISSION OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS/HER OWN RISK AND EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY COSTS INCURRED..
- ALL PAVEMENT DIMENSIONS ARE SHOWN TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE THE MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.
- IF DURING CONSTRUCTION THE CONTRACTOR ENCOUNTERS OR OTHERWISE BECOMES AWARE OF ANY SEWERS OR UNDERDRAINS OTHER THAN THOSE SHOWN ON THE PLANS, HE/SHE SHALL INFORM THE ENGINEER, WHO SHALL DIRECT THE WORK NECESSARY TO MAINTAIN OR REPLACE THE FACILITIES IN SERVICE AND TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION IF MAINTAINED. EXISTING FACILITIES TO BE MAINTAINED THAT ARE DAMAGED BECAUSE OF NON-COMPLIANCE WITH THIS PROVISION SHALL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY TOILET FACILITIES AND HAND SANITIZING STATIONS FOR THE USE OF ALL THE CONTRACTOR'S PERSONNEL EMPLOYED ON THE WORK SITE. THE FACILITIES SHALL BE MAINTAINED IN PROPER SANITARY CONDITION THROUGHOUT THE PROJECT. THE LOCATION OF THE TEMPORARY FACILITIES SHALL BE APPROVED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE NPDES PERMIT AND SWPPP MANUAL. IF NO NPDES PERMIT OR SWPPP MANUAL IS NEEDED FOR THE PROJECT THE CONTRACTOR SHALL PERFORM SOIL EROSION SEDIMENT CONTROL BEST PRACTICES OR AS DIRECTED BY THE OWNER TO PREVENT ILICIT DISCHARGES FROM THE SITE.

EROSION CONTROL NOTES

- AT A MINIMUM, THE CONTRACTOR SHALL INSTALL AND MAINTAIN SOIL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE LATEST EDITION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S URBAN MANUAL.
- DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS.
- LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY ROAD OF MATERIAL THAT IS FROM THE PROJECT. THIS WILL BE DONE AT THE CLOSE OF EACH DAY OF WORK OR MORE FREQUENTLY AS FIELD CONDITIONS WARRANT.
- ALL STORM WATER STRUCTURES WITH OPEN LIDS SHALL BE PROTECTED WITH INLET FILTER BASKETS. DURING CONSTRUCTION, SEDIMENT SHALL BE REMOVED AS NEEDED, AND BASKETS SHALL BE REPAIRED OR REPLACED AS NEEDED.
- AFTER ACHIEVING PERMANENT VEGETATION, ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE REMOVED, AND THE DRAINAGE STRUCTURES SHALL BE CLEANED.
- THE CONTRACTOR SHALL KEEP A WATER SOURCE AT THEIR DISPOSAL FOR THE PURPOSE OF WATERING DOWN SOIL ON SITE AND ADJACENT ROADWAYS WHICH OTHERWISE MAY BECOME AIRBORNE.
- THE CONTRACTOR SHALL STABILIZE ALL IDLE, DISTURBED AREAS WITHIN SEVEN DAYS OF CESSATION OF THE CONSTRUCTION ACTIVITIES IN THAT AREA.
- THE CONTRACTOR IS EXPRESSLY ADVISED NOT TO DISTURB AREAS WHICH ARE OUTSIDE THOSE NECESSARY TO PROVIDE THE IMPROVEMENTS AS CALLED FOR IN THE PLANS.
- ALL EROSION CONTROL MEASURES SHALL BE REPLACED IF DAMAGED OR MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
- CONCRETE WASHOUT FACILITIES SHALL BE MADE AVAILABLE IF NEEDED, AND PROPERLY MAINTAINED THROUGHOUT THE PROJECT.
- PROPERLY MANAGE ALL MATERIAL STORAGE AREAS, PORTABLE TOILETS, AND EQUIPMENT FUELING, CLEANING, AND MAINTENANCE AREAS TO ENSURE THESE AREAS ARE FREE OF SPILLS, LEAKS, OR OTHER POTENTIAL POLLUTANTS.
- WASTE, AND CONSTRUCTION DEBRIS SHALL BE COLLECTED AND PLACED IN APPROVED RECEPTACLES.

PROJECT SPECIFIC NOTES

- THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS THAT INCLUDE; CRITICAL SPOT GRADES SUCH AS OVERFLOW ELEVATIONS, SPOT ELEVATIONS NEAR ENTRANCES, SPOT ELEVATIONS ALONG THE DESIGNATED ADA ROUTE, SUFFICIENT INFORMATION SUCH THAT THE ENGINEER MAY VERIFY RIM AND INVERT ELEVATIONS OF ALL SEWERS, LOCATIONS OF ALL INSTALLED UNDERGROUND UTILITIES, AND ALL FIELD CHANGES FROM THE APPROVED DRAWINGS.
- ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF 12 MONTHS FROM THE DATE OF INITIAL ACCEPTANCE OF THE WORK BY THE OWNER AGAINST ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE.
- ALL CONSTRUCTION WILL BE INSPECTED BY THE OWNER'S REPRESENTATIVE. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE MUNICIPALITY AS WELL AS THE STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL NOTIFY THE **VILLAGE OF PALATINE (847-358-7500) AND THE PROJECT ENGINEER (847-478-9700)** AT LEAST 72 HOURS PRIOR TO BEGINNING ANY WORK ON THIS PROJECT.
- THE CONTRACTOR SHALL INDEMNIFY THE OWNER, ENGINEER, THE MUNICIPALITY AND THEIR AGENTS, FROM ALL LIABILITY INVOLVED IN CONSTRUCTION, INSTALLATION AND TESTING OF THE WORK ON THIS PROJECT.
- THE CONTRACTOR MUST CARRY INSURANCE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. ALL OFFICIALS, EMPLOYEES AND AGENTS OF GEWALT HAMILTON ASSOCIATES MUST BE LISTED AS ADDITIONAL INSURED.
- ALL ELEVATIONS ARE ON **NAVD 88** VERTICAL DATUM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL TO ADEQUATELY INFORM AND PROTECT THE PUBLIC OF ALL CONSTRUCTION OPERATIONS.
- PRIOR TO PLACEMENT OF FABRIC AND STONE, THE SUBGRADE SHALL BE PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER. PROOF-ROLLING SHALL BE DONE USING A THREE AXLE DUMP TRUCK TOGETHER WITH LOAD WEIGHING AT LEAST TWENTY-FIVE (25) TONS. THE LOAD SHALL BE UNIFORMLY PLACED IN THE DUMP BODY. ALL DEFICIENCIES SHALL BE REPAIRED AND RE-PROOF-ROLLED UNTIL FOUND ACCEPTABLE TO THE ENGINEER.
- CRUSHED CONCRETE IS NOT PERMITTED FOR USE ON THE PROJECT UNLESS PRIOR WRITTEN NOTICE IS GIVEN BY THE ENGINEER.
- ALL STONE USED ON THE PROJECT SHALL BE CRUSHED UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL PAVEMENT SUBGRADE SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY (ASTM D-1557). ALL TOPSOIL AND SUBGRADE 6" BELOW TOPSOIL SHALL BE COMPACTED TO 80% STANDARD PROCTOR DENSITY (ASTM D-698)
- SPREAD SCREENED TOPSOIL ON ALL DISTURBED AREAS AND PROPOSED GREEN AREAS. TOPSOIL SHALL COMPLY WITH REQUIREMENTS OF ARTICLE 1081.05.
- ALL SIGNAGE SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND ILLINOIS SUPPLEMENT OR ILLINOIS DEPARTMENT OF TRANSPORTATION DETAILS.
- UNLESS NOTED OTHERWISE ON THE PLANS, ALL SIGNAGE NOT ATTACHED TO SIGNAL OR LIGHTING POLES SHALL BE MOUNTED ON TELESCOPING STEEL SIGN SUPPORTS WITH BREAKAWAY BASES IN ACCORDANCE WITH SECTION 728.
- ALL SIGNAGE SHALL HAVE TYPE ZZ SHEETING.

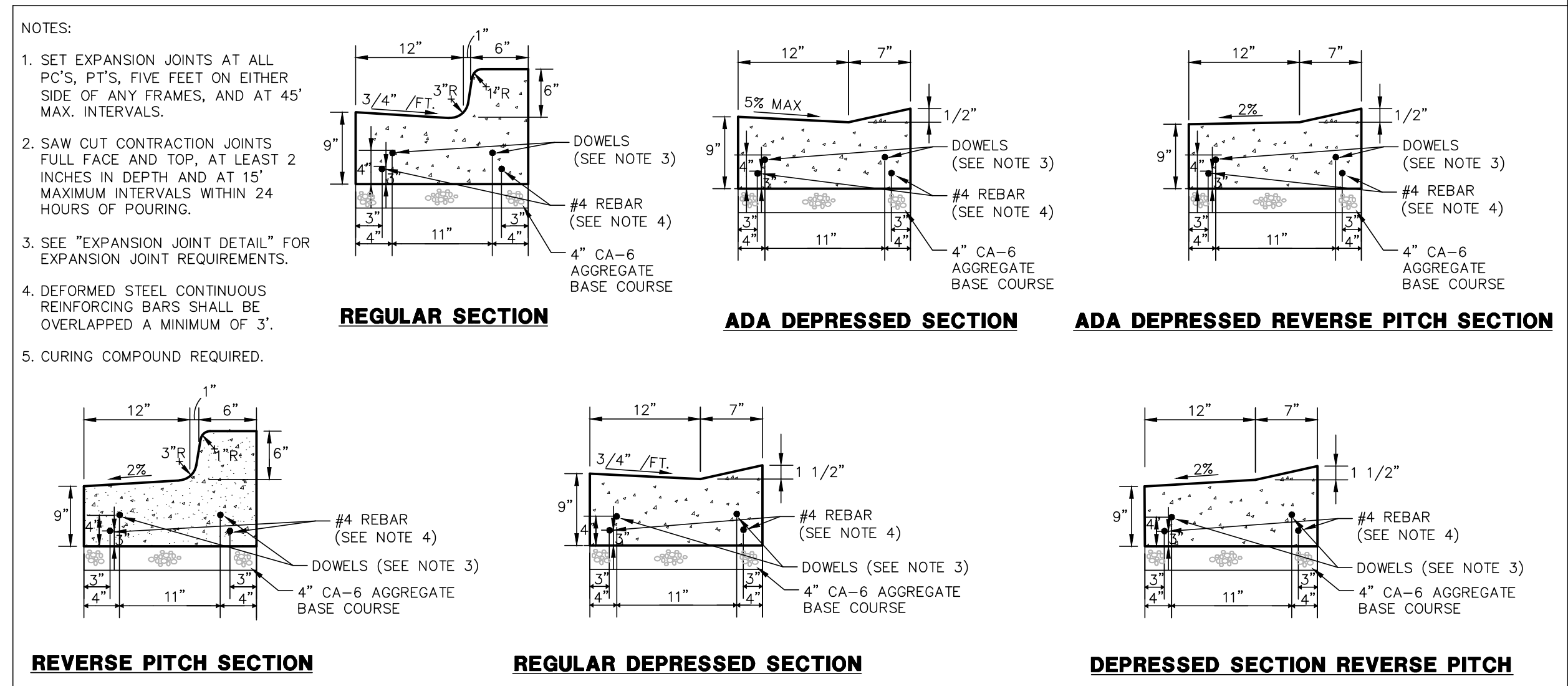
SPECIAL PROVISIONS

CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD) MATERIAL DISPOSAL

WORK UNDER THIS ITEM SHALL BE PERFORMED IN COMPLIANCE WITH THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA) GUIDELINES IN EFFECT AT THE TIME OF CONSTRUCTION. THE CONTRACTOR WILL BE REQUIRED TO MAKE ALL ARRANGEMENTS FOR COORDINATION AND SUBMISSION OF THE NECESSARY DOCUMENTS WITH THEIR CHOSEN CCDD OR OTHER SUITABLE DISPOSAL FACILITY. WRITTEN CONFIRMATION OF PRELIMINARY APPROVAL MUST BE PROVIDED FROM THE DISPOSAL FACILITY AND CONFIRMED BY THE OWNER AS ACCEPTABLE. ALL SURPLUS, CLEAN MATERIAL GENERATED FROM THE CONTRACTOR'S ACTIVITIES MUST BE DISPOSED OF AT AN IEPA PERMITTED CCDD OR OTHERWISE ACCEPTABLE FACILITY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DOCUMENTATION TO THE OWNER FOR EACH LOAD HAULED OFF-SITE SHOWING THE QUANTITY OF MATERIAL AND THE LOCATION THE MATERIAL WAS DISPOSED OF. NO EXTRA COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY EXPENSES INCURRED COMPLYING WITH THESE REQUIREMENTS INCLUDING BUT NOT LIMITED TO: DELAYS, INCONVENIENCE, OR INTERRUPTIONS IN THE WORK RESULTING FROM COMPLIANCE WITH THESE REQUIREMENTS. ALL COSTS ASSOCIATED WITH MATERIAL TESTING AND DISPOSAL SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

NON-WOVEN	STYLE DESCRIPTION	STANDARDS/REQUIREMENTS	RECOMMENDED PRODUCTS
LIGHT DUTY	UNDERDRAIN FABRIC	3.5 oz	
		MINIMUM GRAD TENSILE ASTM D4632 = 90 LBS	PROPEX GEOTEX 351
		MINIMUM TRAPEZOID TEAR ASTM D4533 = 40 LBS	US FABRICS 90NW
		MINIMUM FLOW RATE ASTM D4491 = 150 GAL/MIN/SQFT	THRACE LINQ 125EX
			TENCATE MIRAFI 140NL
MEDIUM DUTY	UNDERDRAIN FABRIC RIPRAP FABRIC	6 oz	
		MINIMUM GRAD TENSILE ASTM D4632 = 160 LBS	PROPEX GEOTEX 601
		MINIMUM TRAPEZOID TEAR ASTM D4533 = 60 LBS	US FABRICS 160NW
		MINIMUM FLOW RATE ASTM D4491 = 110 GAL/MIN/SQFT	THRACE LINQ 150EX
			TENCATE MIRAFI 160N
HEAVY DUTY	SUBGRADE/SUBBASE SEPARATION	10 oz	
		MINIMUM GRAD TENSILE ASTM D4632 = 250 LBS	PROPEX GEOTEX 1001
		MINIMUM TRAPEZOID TEAR ASTM D4533 = 100 LBS	US FABRICS 250NW
		MINIMUM FLOW RATE ASTM D4491 = 75 GAL/MIN/SQFT	THRACE LINQ 245EX
			TENCATE MIRAFI 1100N
WOVEN	STYLE DESCRIPTION	STANDARDS/REQUIREMENTS	RECOMMENDED PRODUCTS
HEAVY DUTY	SUBGRADE/SUBBASE SEPARATION	6 oz	
		MINIMUM GRAD TENSILE ASTM D4632 = 315 LBS	PROPEX GEOTEX 315ST
		MINIMUM TRAPEZOID TEAR ASTM D4533 = 113 LBS	US FABRICS 315
		MINIMUM FLOW RATE ASTM D4491 = 4 GAL/MIN/SQFT	THRACE LINQ GTF-300
			TENCATE MIRAFI 600X

STORM SEWERS	MODEL/SPECIFICATION	STANDARDS/REQUIREMENTS
UNDERDRAINS	PVC SDR 26 (PERF.)	PIPE:ASTM D-3034 JOINT:ASTM D-3212
	PERFORATIONS	HOLE PATTERN:ASTM D-2729
FRAME & GRATE/LID	PAVED AREAS	OPEN LID:NEENAH R-2504 TYPE "D" CLOSED LID:NEENAH R-1713 EMBOSSED "STORM SEWER"
	CURB STRUCTURES	OPEN LID:NEENAH R-3281-A CLOSED LID:N/A
	GRASS AREAS	OPEN LID:NEENAH R-2504 TYPE "D" CLOSED LID:NEENAH R-1713 EMBOSSED "STORM SEWER"
ADJUSTMENT RINGS	CONCRETE	4" MINIMUM, 12" MAXIMUM
TRENCH BACKFILL UNDERDRAIN	CA7/CA-11	CRUSHED CONCRETE NOT ALLOWED, ALL STONE MUST BE WASHED



GHA GEWALT HAMILTON ASSOCIATES, INC. **B6.12 CURB & GUTTER WITH CONTINUOUS REBAR** 11.15.2021

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GENERAL NOTES
PALATINE PARK DISTRICT - PARKING LOT IMPROVEMENTS
PALATINE HILLS GOLF COURSE
512 WEST NORTHWEST HIGHWAY, PALATINE, ILLINOIS 60067

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	OF 9 SHEETS

Stabilization Type:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Permanent Seeding		A				X	X	X	X	X		
Dormant Seeding	B											
Temporary Seeding		C				X	X	X	X	X		
Sodding		E	X	X								
Mulching	F											

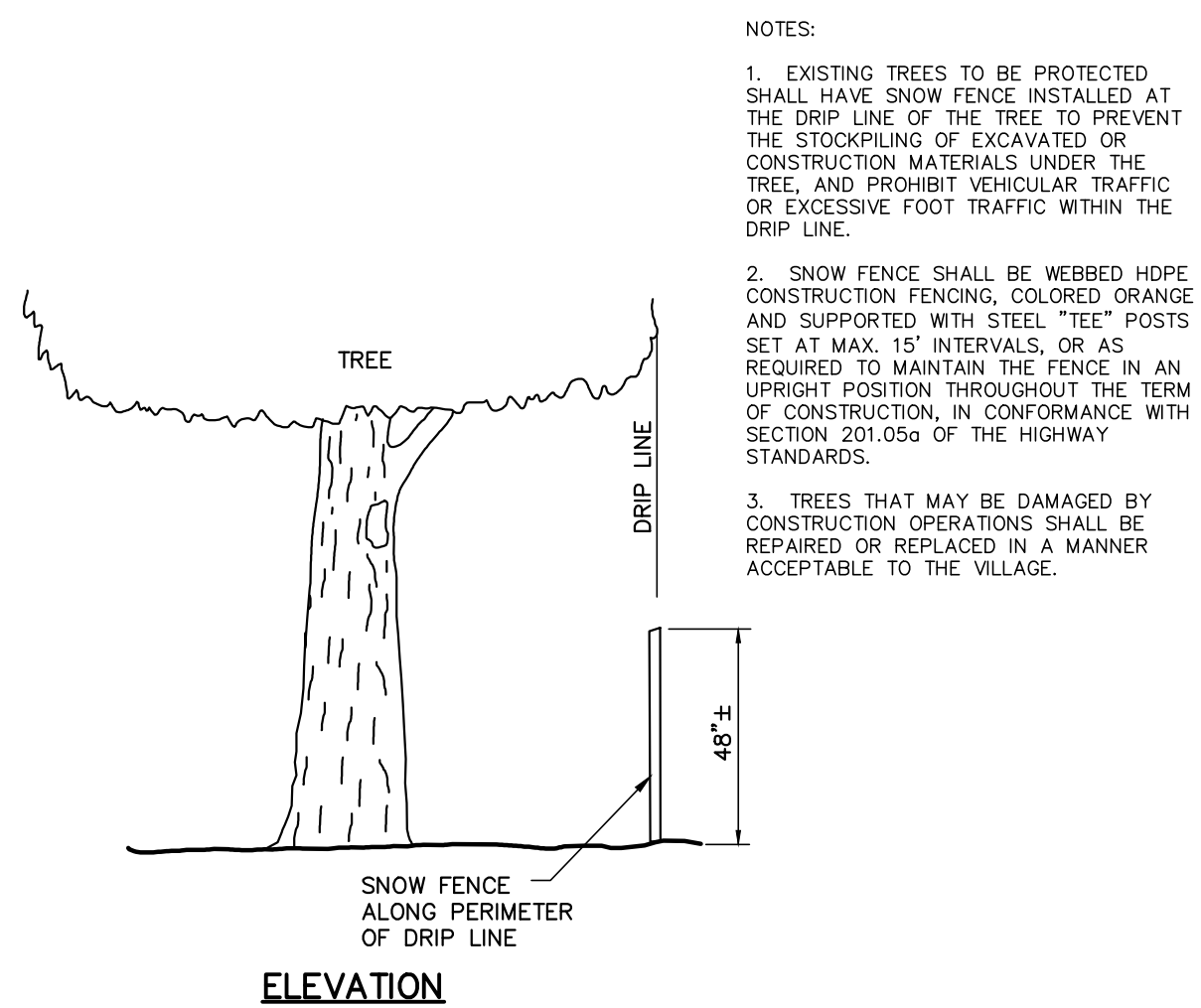
A = KENTUCKY BLUEGRASS @ 90 LBS/AC. MIXED WITH PERENNIAL RYEGRASS @ 30 LBS/AC.
 B = KENTUCKY BLUEGRASS @ 135 LBS/AC. MIXED WITH PERENNIAL RYEGRASS @ 45 LBS/AC.
 C = SPRING OATS @ 100 LBS/AC.
 D = WHEAT OR CEREAL RYE @ 150 LBS/AC.
 E = SOD
 F = STRAW MULCH (HYDROMULCH OR USE STRAW BLANKET) @ 2 TONS/AC.

XXX = IRRIGATION NEEDED
 IRRIGATION SHOULD BE PROVIDED AS NECESSARY TO THOROUGHLY ESTABLISH INTENDED GROWTH.
 NOTE:
 SPRAYED ON PRODUCTS CANNOT BE USED NOV.-FEB.

03.15.2016



TYPICAL SOIL PROTECTION CHART

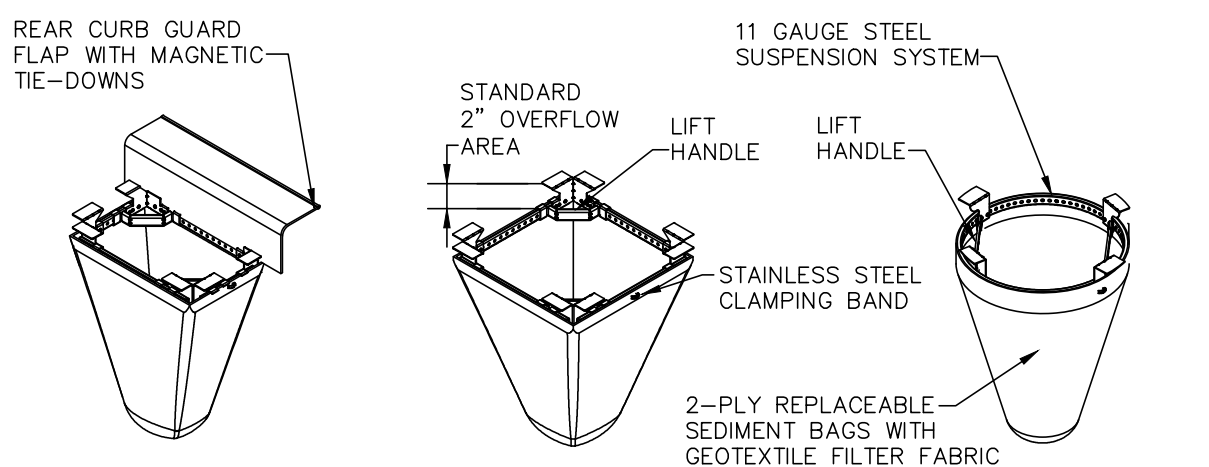


- NOTES:
- EXISTING TREES TO BE PROTECTED SHALL HAVE SNOW FENCE INSTALLED AT THE DRIPLINE OF THE TREE TO PREVENT THE STOCKPIPING OF EXCAVATED OR CONSTRUCTION MATERIALS UNDER THE TREE, AND PROHIBIT VEHICULAR TRAFFIC OR EXCESSIVE FOOT TRAFFIC WITHIN THE DRIPLINE.
 - SNOW FENCE SHALL BE WEBBED HDPE CONSTRUCTION FENCING, COLORED ORANGE AND SUPPORTED WITH STEEL "TEE" POSTS SET AT MAX. 15' INTERVALS, OR AS REQUIRED TO MAINTAIN THE FENCE IN AN UPRIGHT POSITION THROUGHOUT THE TERM OF CONSTRUCTION, IN CONFORMANCE WITH SECTION 201.05e OF THE HIGHWAY STANDARDS.
 - TREES THAT MAY BE DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED IN A MANNER ACCEPTABLE TO THE VILLAGE.

03.15.2016



TREE PROTECTION FENCING DETAIL



Material Property	Test Method	Value (min. ave.)
> Inner Filter Bag Specs (2ft ³ min. vol)		Non-Woven Woven Mono
Grab Tensile	ASTM D 4632	100 lbs 200 lbs
Puncture Strength	ASTM D 4833	65 lbs 90 lbs
Trapezoidal Tear	ASTM D 4535	45 lbs 75 lbs
UV Resistance	ASTM D 4355	70% at 500 hrs 90%
App. Open Size (AOS)	ASTM D 4751	70 sieve (.212 mm) 40 sieve (.425 mm)
Permittivity	ASTM D 4491	2.0/sec 2.1/sec
Water Flow Rate	ASTM D 4491	145 gpm/sqft 145gpm/sqft
> Polyester Outer Reinforcement Bag Specifications		
Weight	ASTM D 3776	4.55 oz/sqyd +/-15%
Thickness	ASTM D 1777	.040 +/- .005
> Frame Construction		
A36 Structural Steel	ASTM A 576	Tensile Strength > 58,000 psi
11 Gauge, Zinc Plated		Yield Strength > 36,000 psi

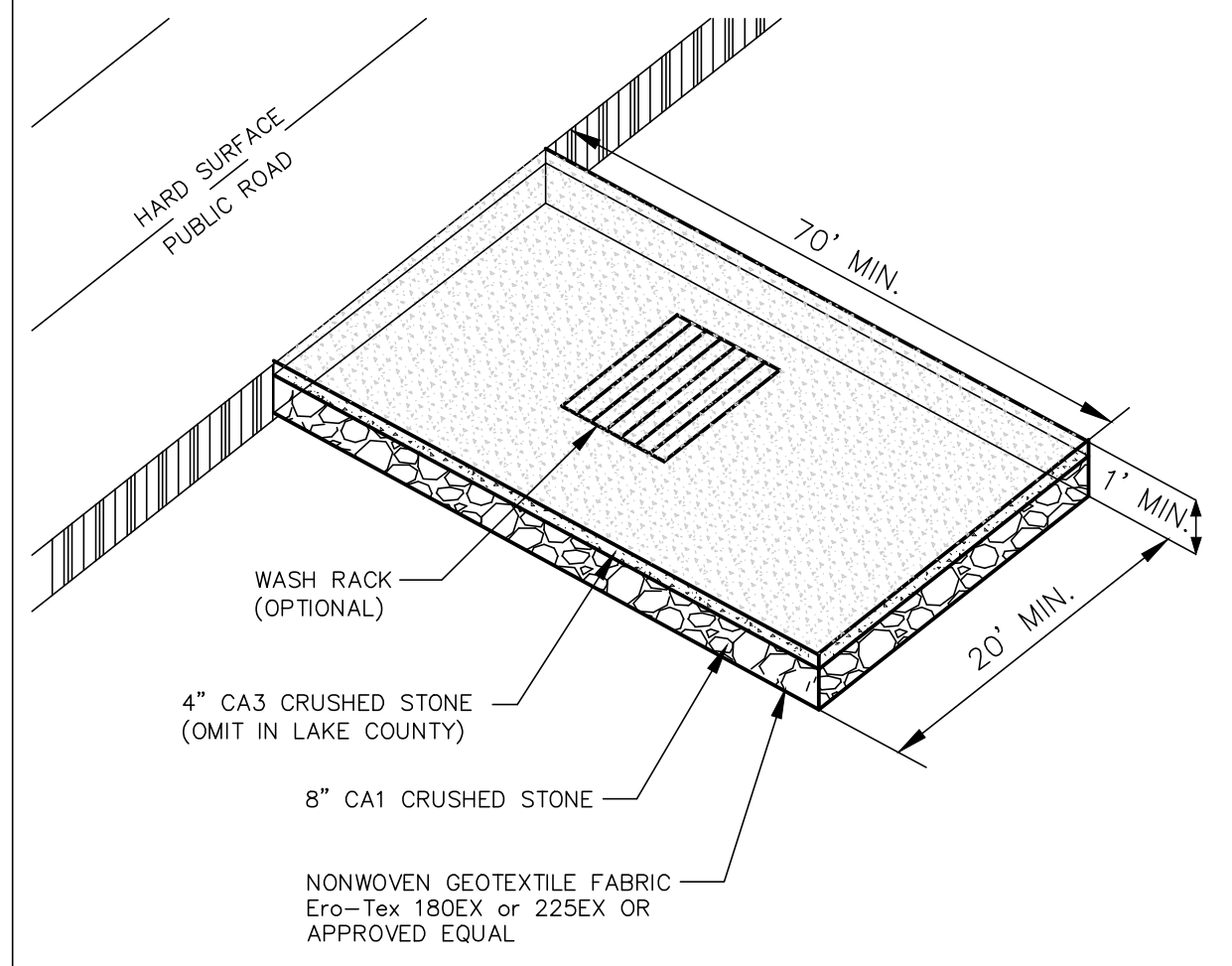
MAINTENANCE
 1. CLEAN OUT AFTER EVERY RAIN EVENT

ACCEPTABLE MANUFACTURER'S AS LISTED BELOW:
 1. INLET & PIPE PROTECTION, INC. Naperville, IL 60564 847 722-0690
 2. MARATHON MATERIALS, INC. Plainfield, IL 60544 800-983-9493

03.15.2016



INLET FILTER BASKET DETAIL

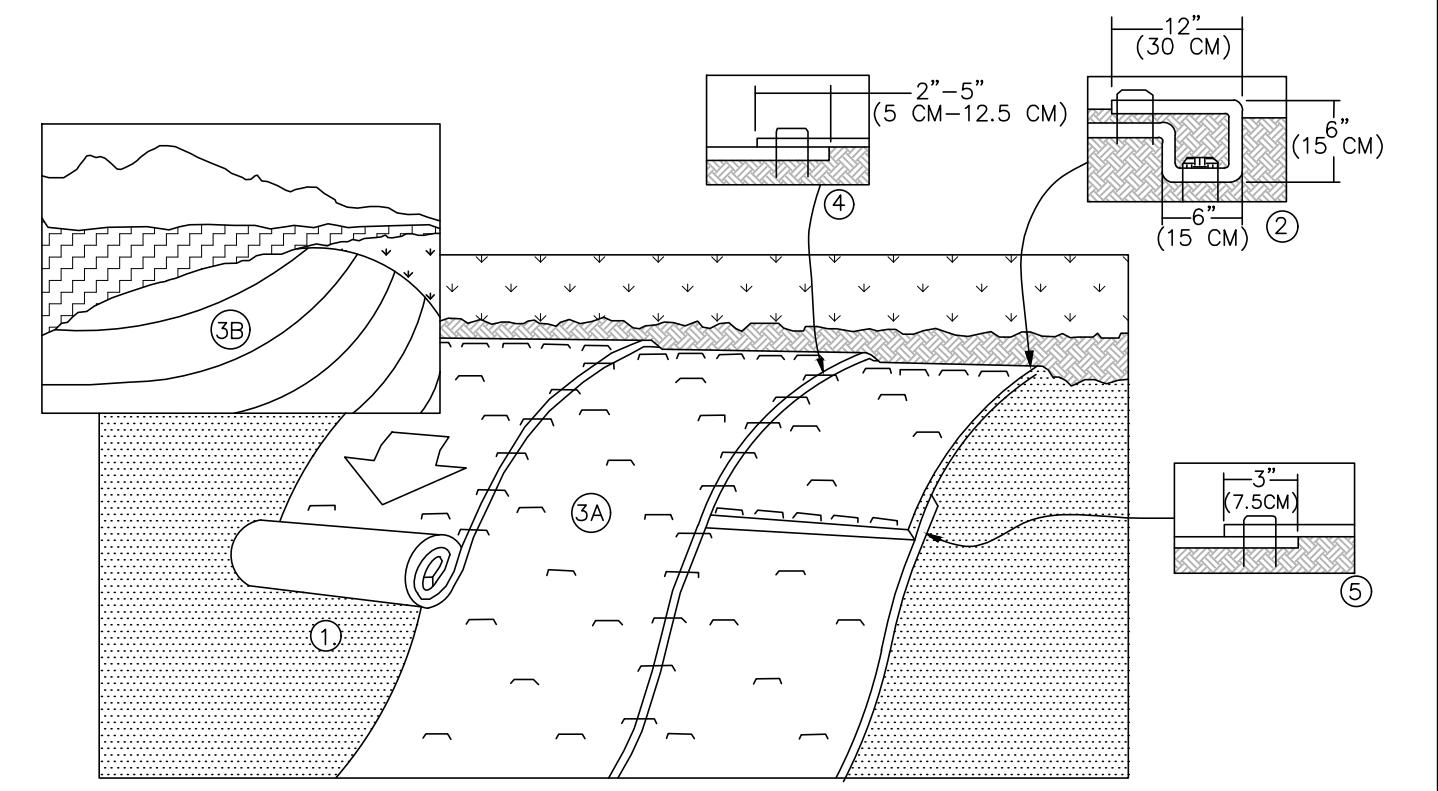


03.15.2016



TEMPORARY CONSTRUCTION ENTRANCE

- NOTES:
- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
 - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.
 - ROLL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 - THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP'S TYPE.
 - CONSECUTIVE RECP'S SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH.
- NOTE:
 *IN LOOSE SOIL, CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.



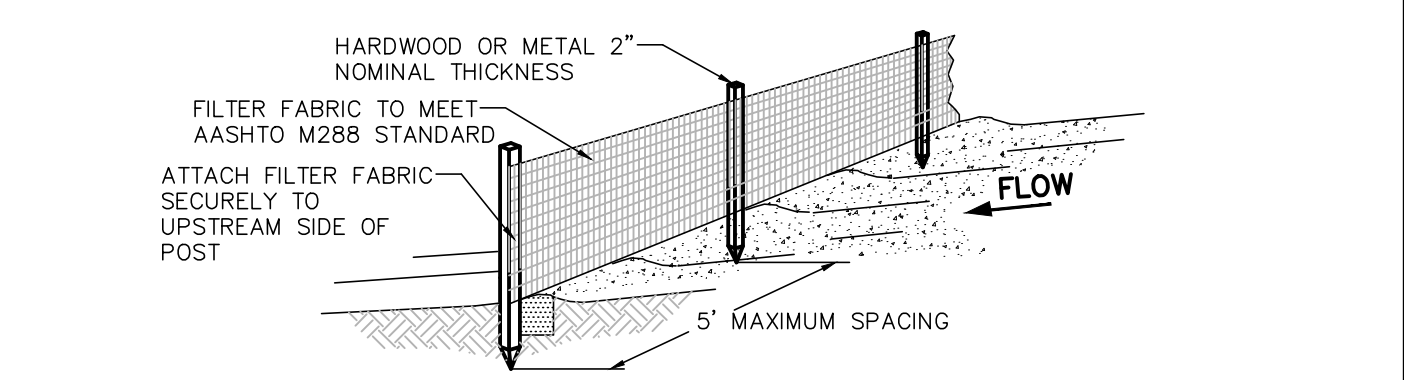
STAPLE PLACEMENTS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. SEE STAPLE PATTERN GUIDES FOR ACTUAL RECOMMENDED PLACEMENTS.

03.15.2016



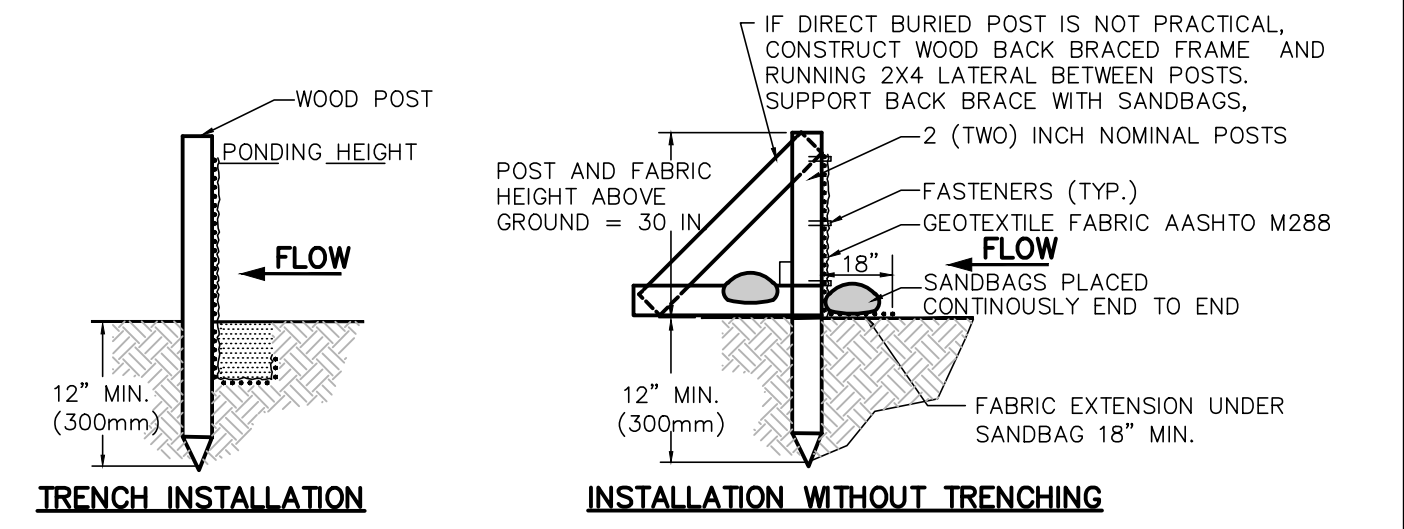
EROSION CONTROL BLANKET SLOPE INSTALLATION

- NOTES:
- SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
 - INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.
 - REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
 - FABRIC AND INSTALLATION SHALL MEET THE REQUIREMENTS OF ASSHTO STANDARD SPECIFICATION M-288-00.
 - SLICING METHOD IS PREFERRED.



PROPERTY	TEST PROCEDURE
Grab Elongation	
Machine Direction	ASTM D-4533 123 lbs
X-Machine Direction	ASTM D-4833 101 lbs
Permittivity	ASTM D-4491 0.05 sec ⁻¹
A.S.O.	ASTM D-4751 30 u.s. Sieve
UV Stability	ASTM D-4355 70%

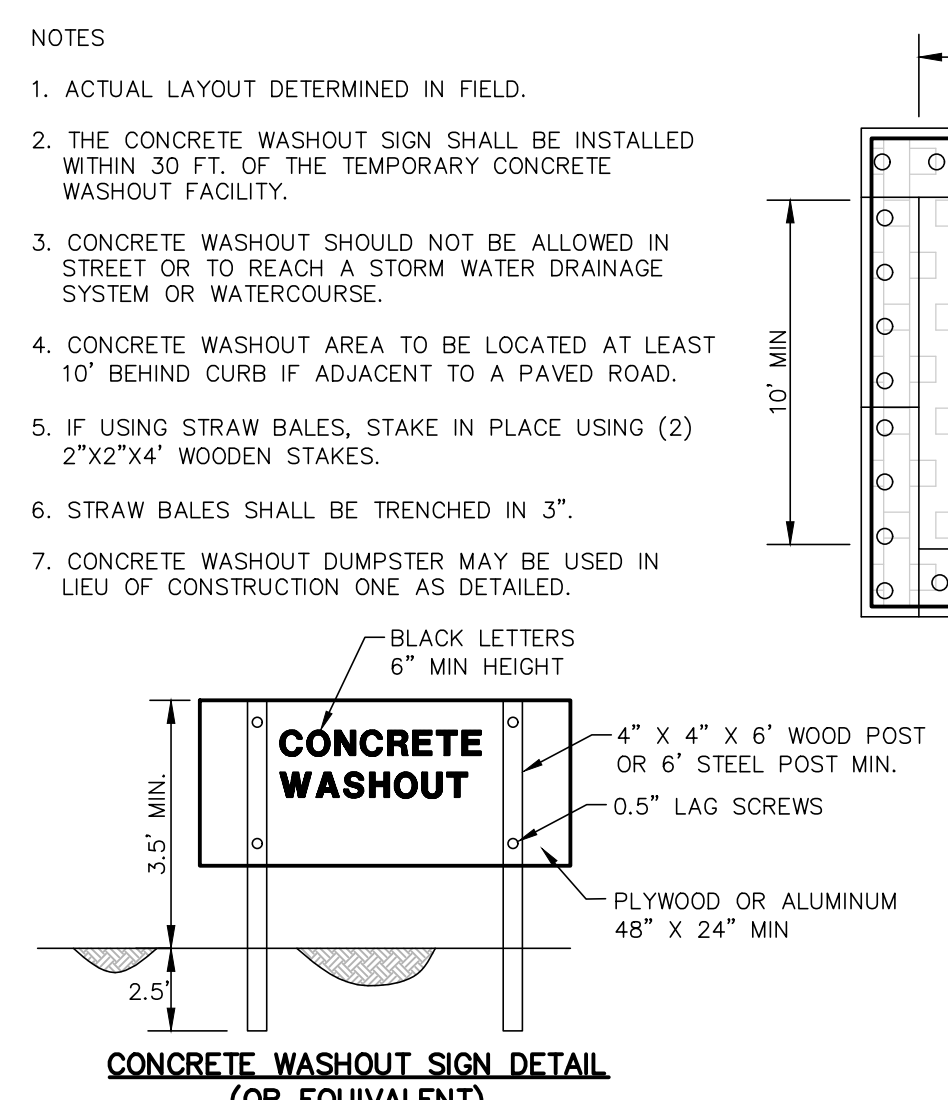
- NOTES:
- SET POSTS AND EXCAVATE OR SLIT-TRENCH A 6-INCH DEEP TRENCH UPSLOPE ALONG THE LINE OF THE POST
 - ATTACH AASHTO GEOTEXTILE FILTER FABRIC TO EACH POST WITH A MINIMUM OF 3(THREE) FASTENERS PER POST AND EXTEND TO THE BOTTOM OF THE TRENCH. ACCEPTABLE FASTENERS INCLUDE STAPLES, ZIP-TIES, OR WIRE TIES.
 - BACKFILL AND COMPACT THE EXCAVATED SPOIL MATERIALS



03.15.2016



SILT FENCE INSTALLATION DETAIL



03.15.2016



CONCRETE WASHOUT

- MAINTENANCE:
- DRIED CONCRETE WASTE SHALL BE PICKED UP AND DISPOSED OF PROPERLY WHEN 75% OF CAPACITY IS REACHED.
 - HARDENED CONCRETE CAN BE PROPERLY RECYCLED AND REUSED ONSITE OR HAULED OFF-SITE TO AN APPROPRIATE FACILITY.

03.15.2016



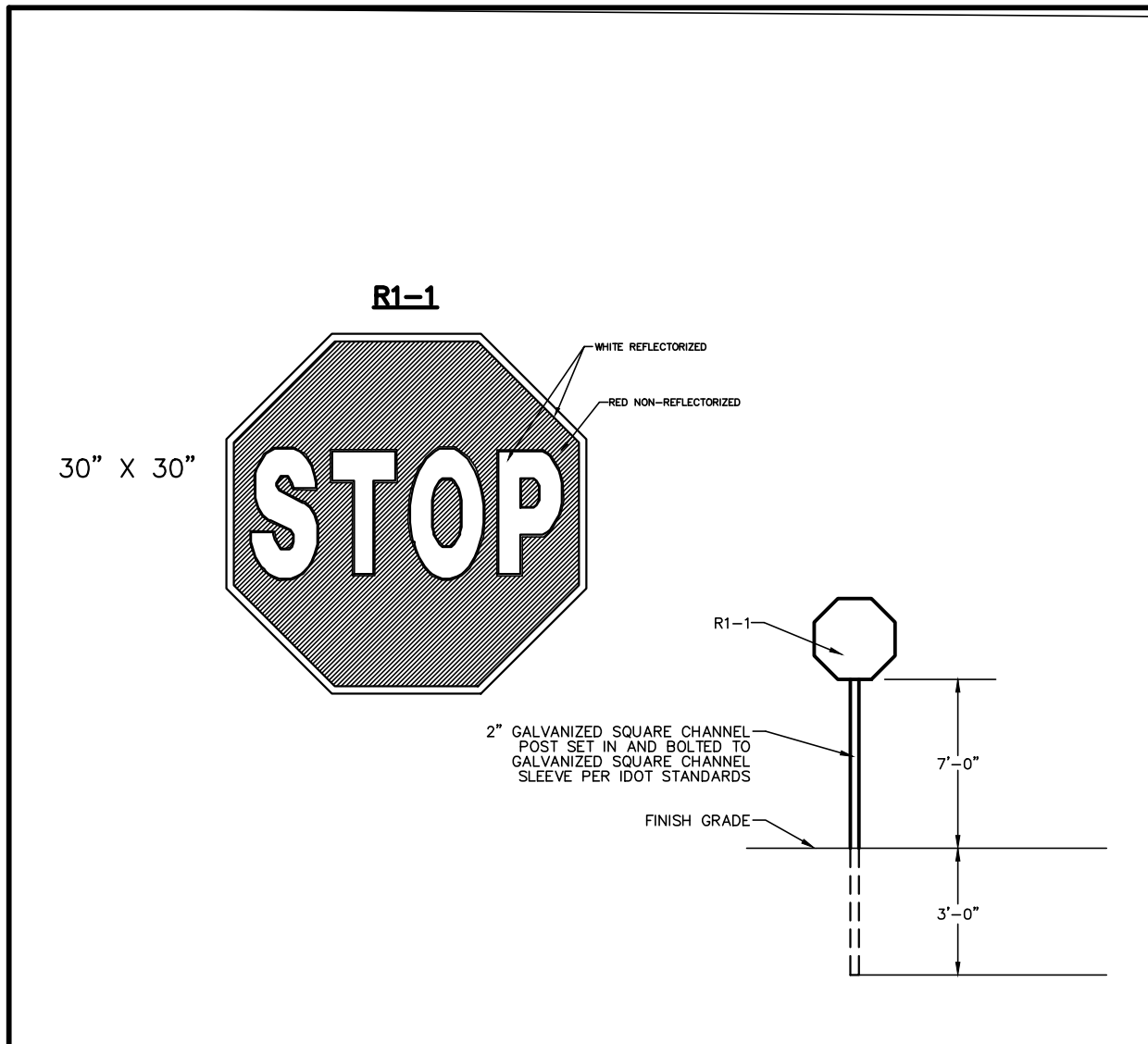
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SOIL EROSION AND SEDIMENT CONTROL DETAILS
PALATINE PARK DISTRICT - PARKING LOT IMPROVEMENTS
PALATINE HILLS GOLF COURSE
512 WEST NORTHWEST HIGHWAY, PALATINE, ILLINOIS 60067

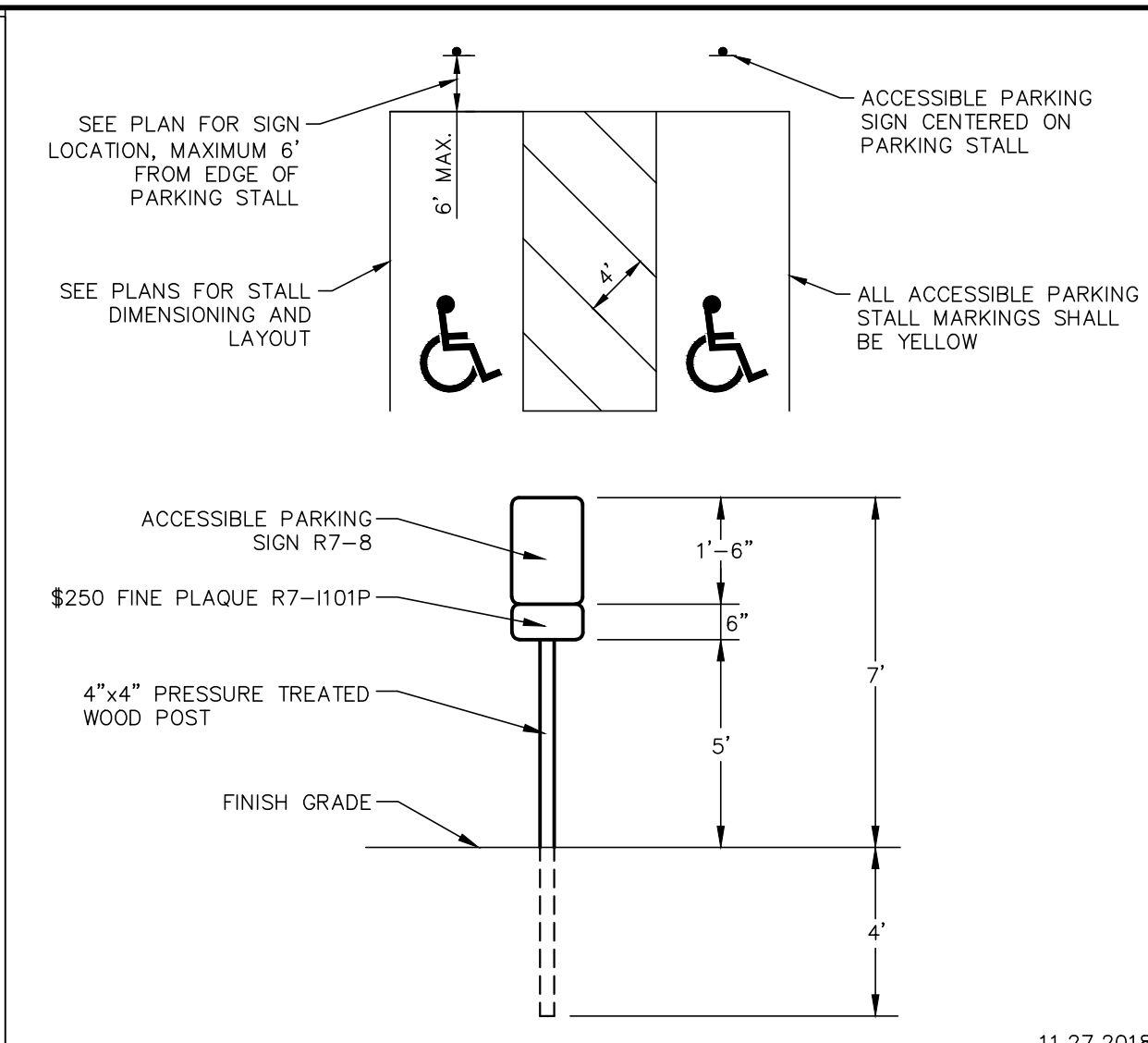
NO.	BY	DATE	REVISION

FILE: 5241.220-DT2.dwg	SHEET NUMBER:
DRAWN BY: AJP	GHA PROJECT #
DATE: 04/05/23	5241.220
CHECKED BY: DED	SCALE:
DATE: 04/05/23	N.A.
	OF 9 SHEETS

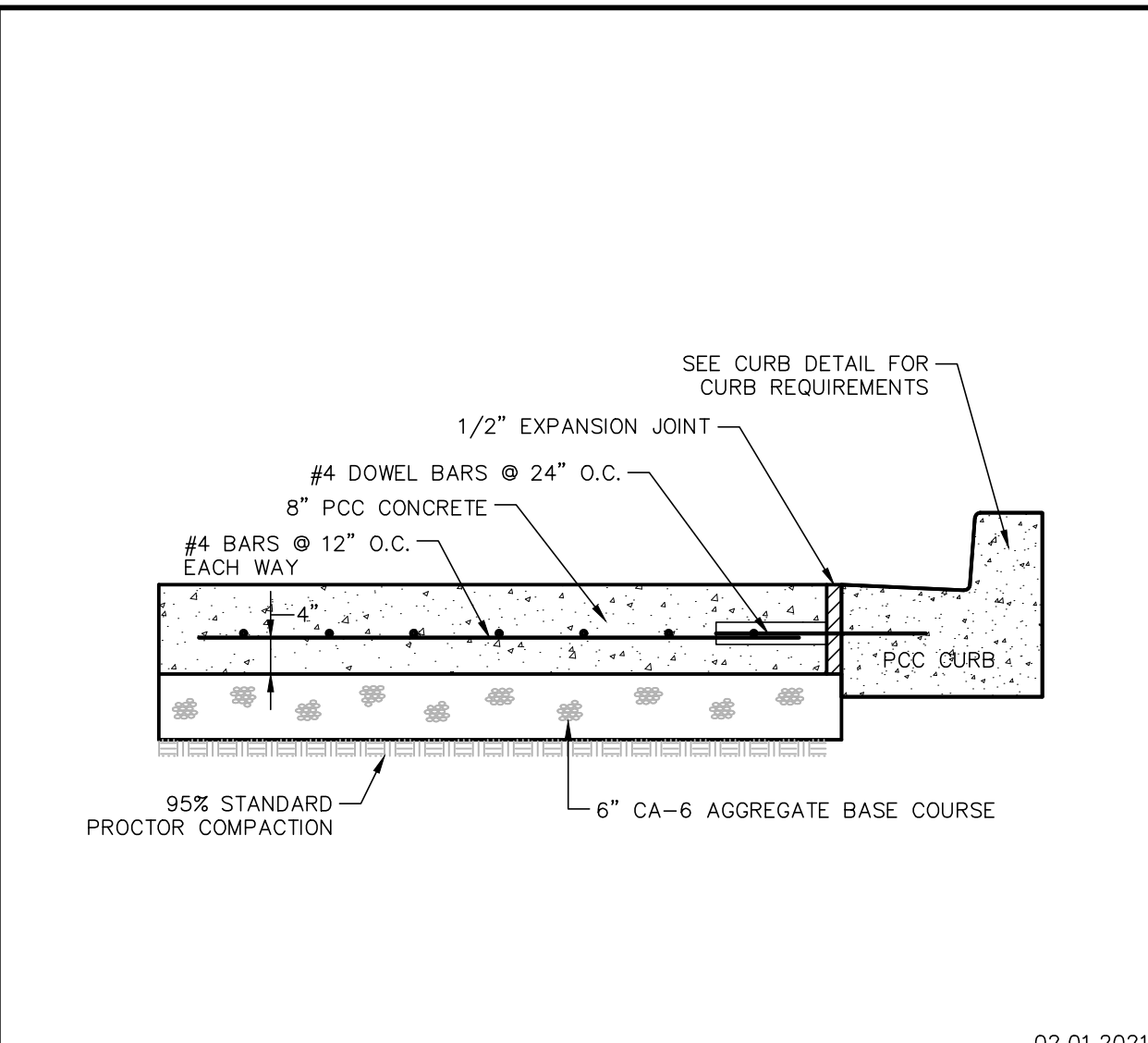
© 2023 GEWALT HAMILTON ASSOCIATES, INC. PALATINE HILLS GOLF COURSE PARKING LOT IMPROVEMENTS 512 WEST NORTHWEST HIGHWAY, PALATINE, ILLINOIS 60067



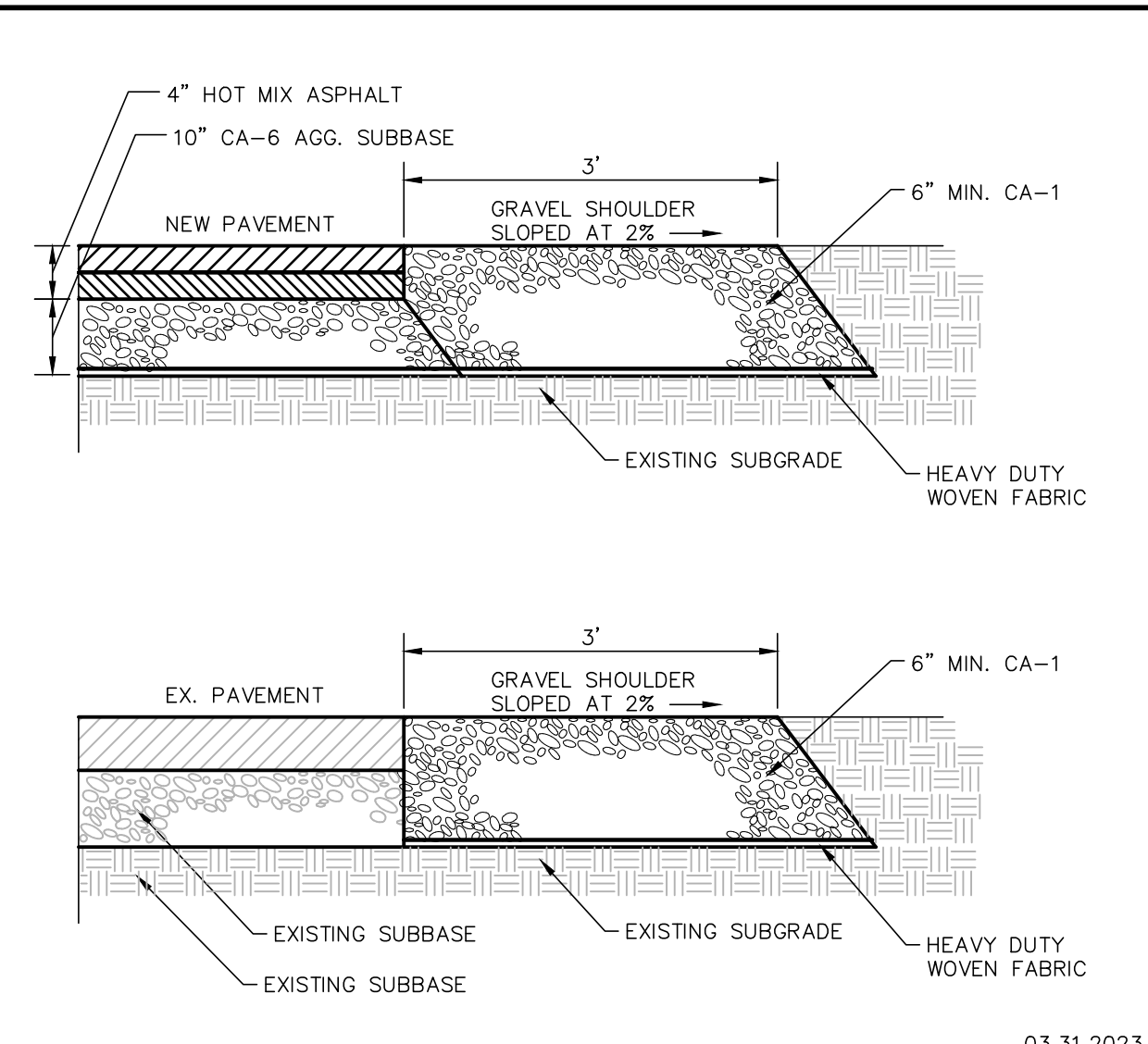
GEWALT HAMILTON ASSOCIATES, INC. STOP SIGN DETAIL



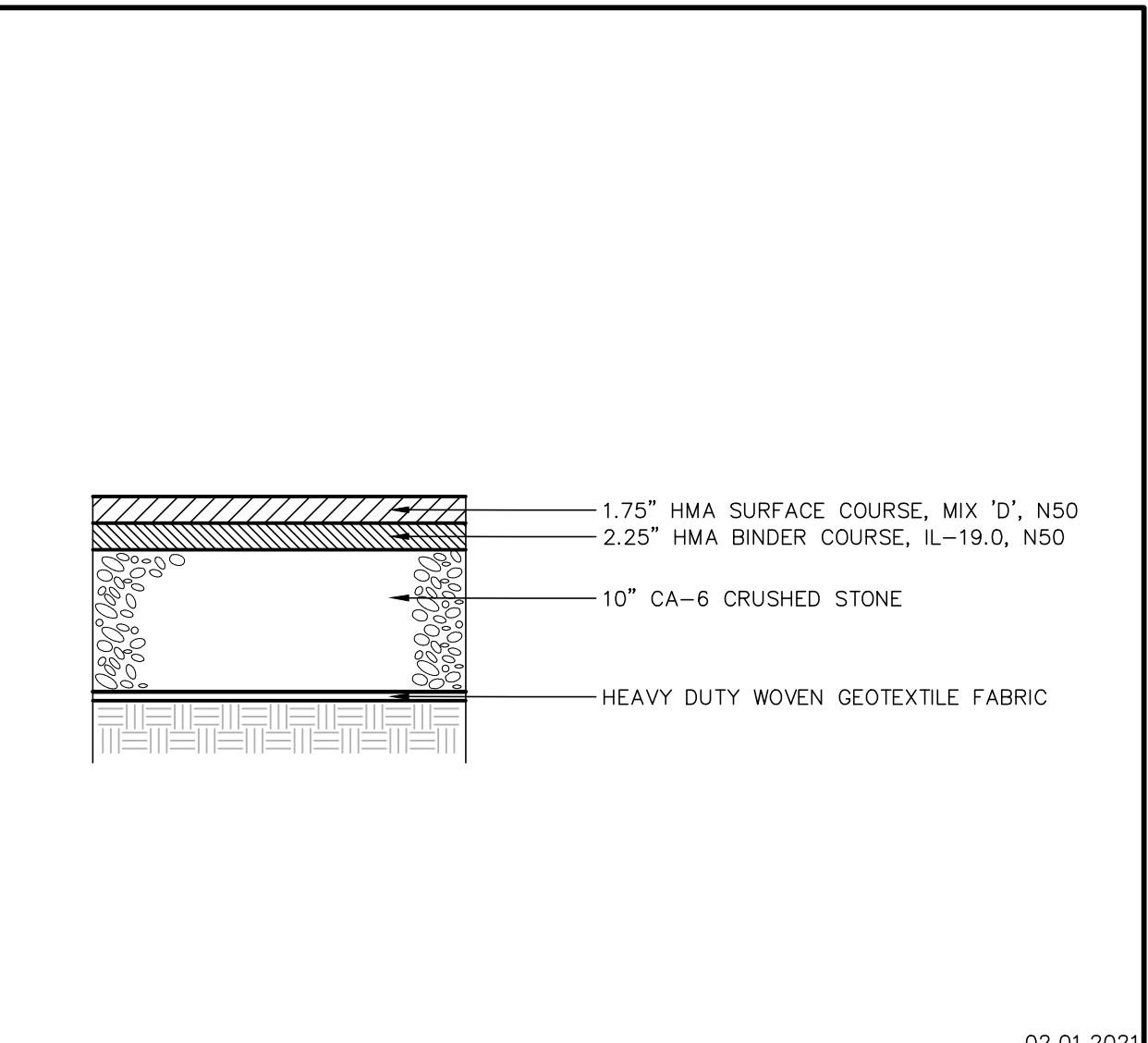
GEWALT HAMILTON ASSOCIATES, INC. ACCESSIBLE PARKING DETAIL



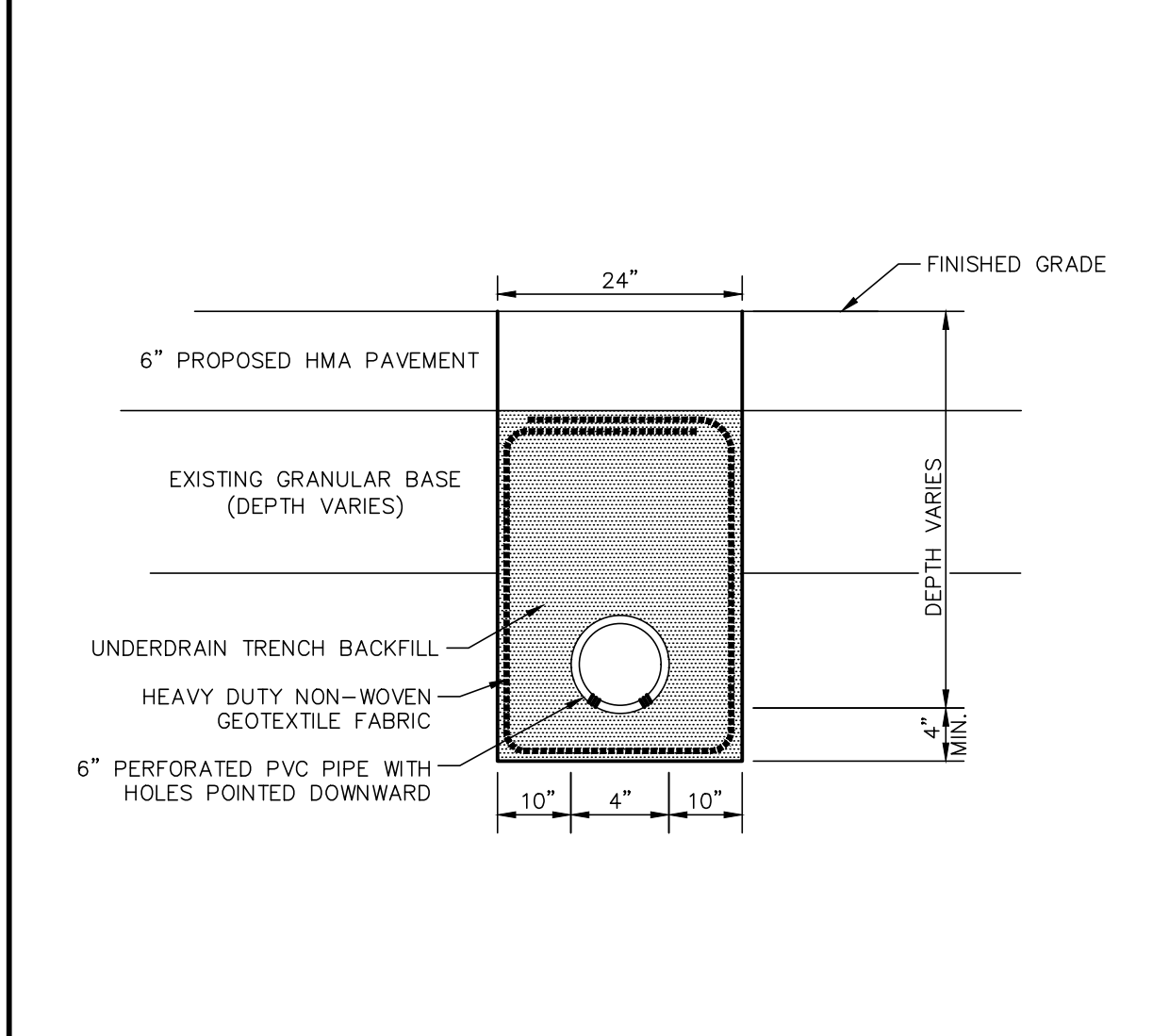
GEWALT HAMILTON ASSOCIATES, INC. REINFORCED PCC PAVEMENT DETAIL



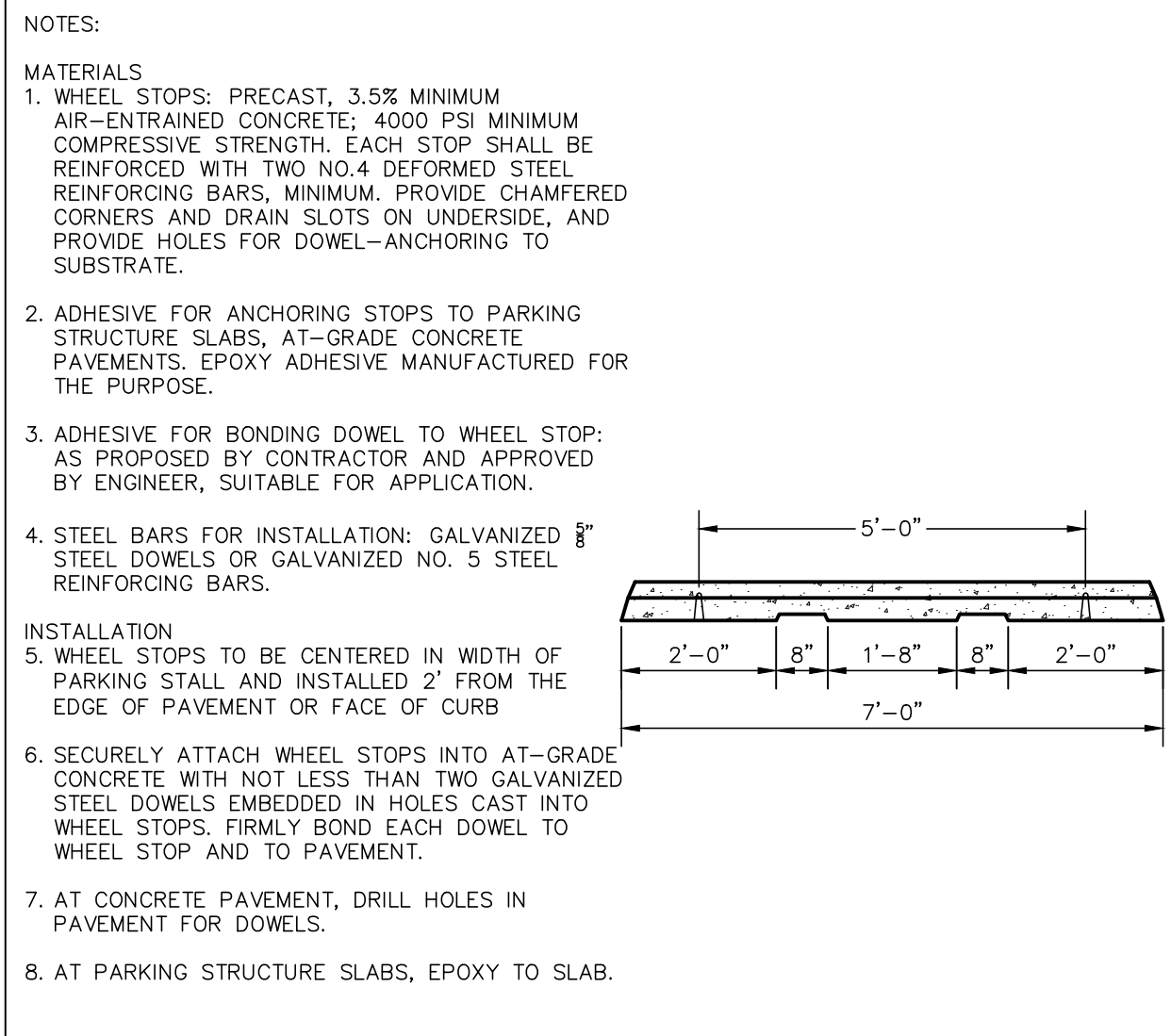
GEWALT HAMILTON ASSOCIATES, INC. GRAVEL SHOULDER DETAIL



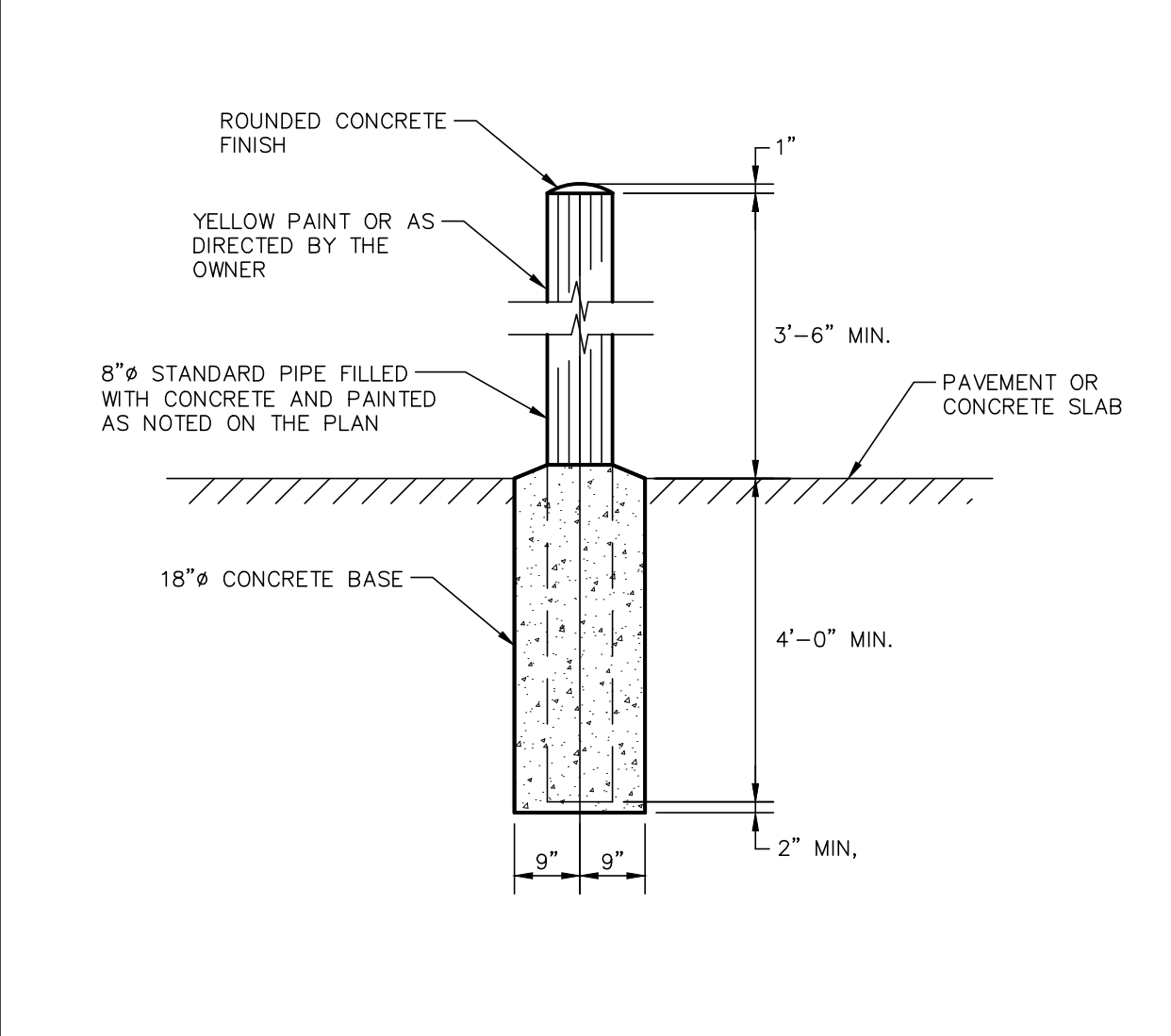
GEWALT HAMILTON ASSOCIATES, INC. FULL DEPTH PAVEMENT DETAIL



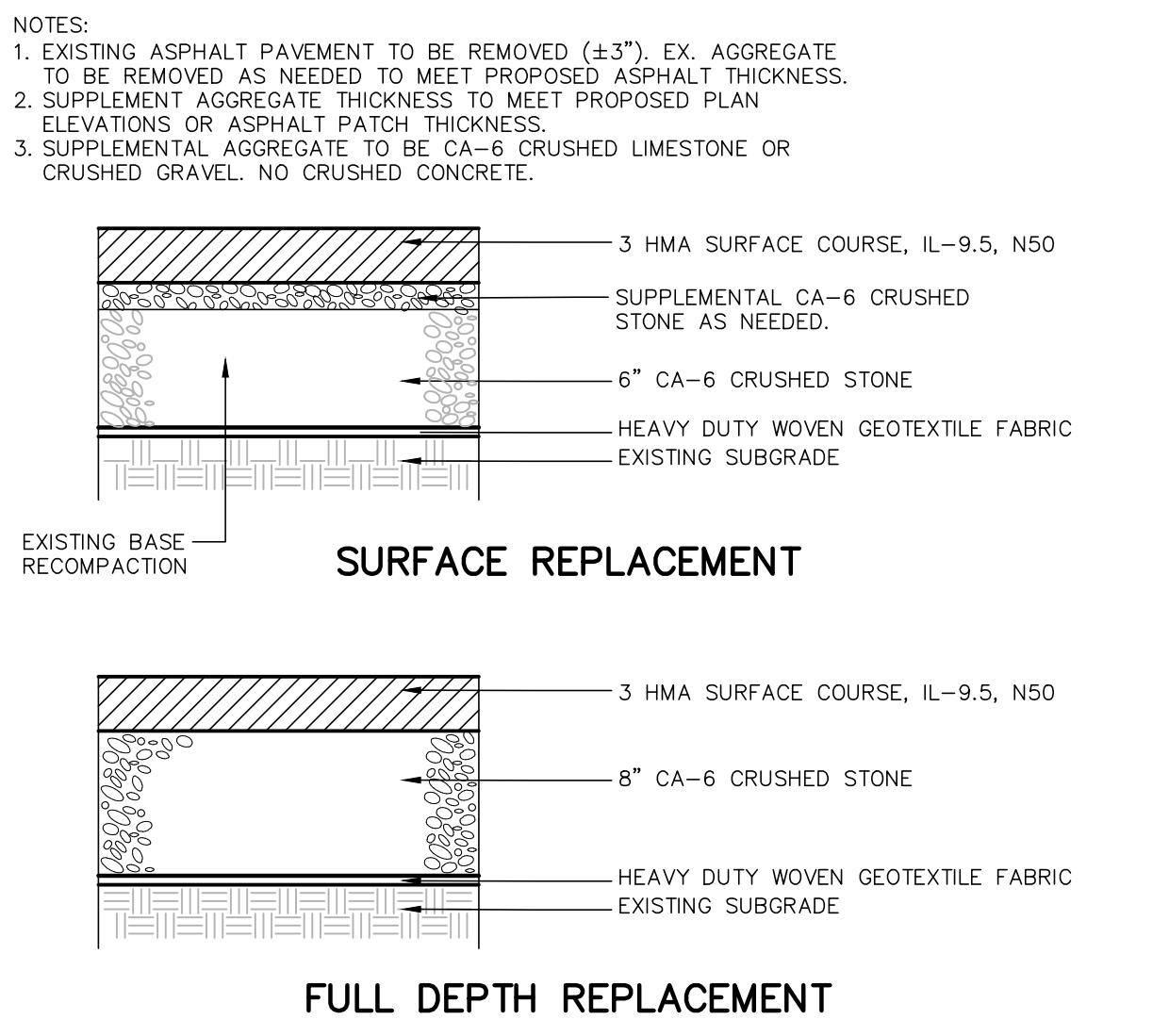
GEWALT HAMILTON ASSOCIATES, INC. UNDERDRAIN DETAIL



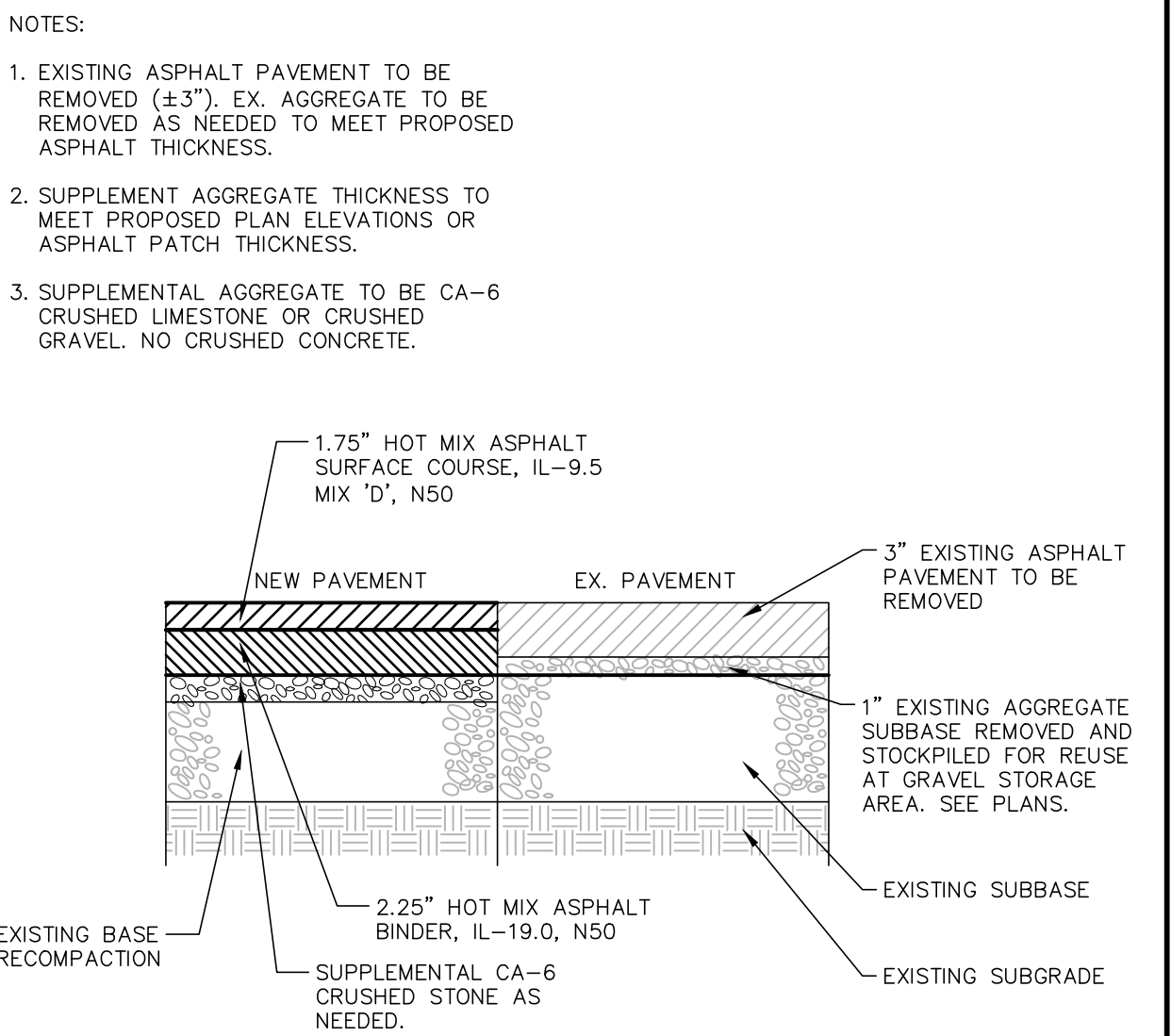
GEWALT HAMILTON ASSOCIATES, INC. WHEEL STOP



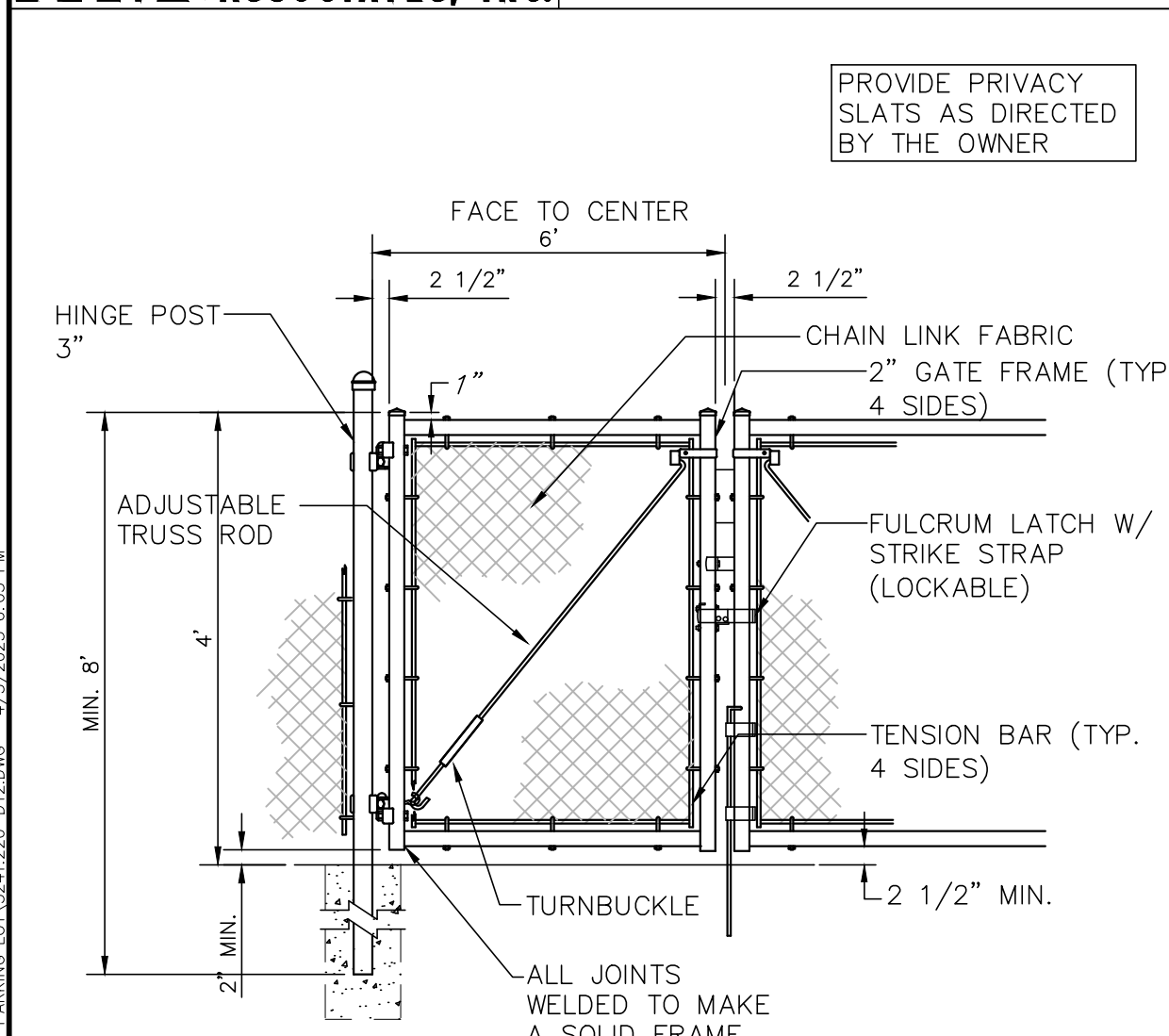
GEWALT HAMILTON ASSOCIATES, INC. STEEL BOLLARD POST



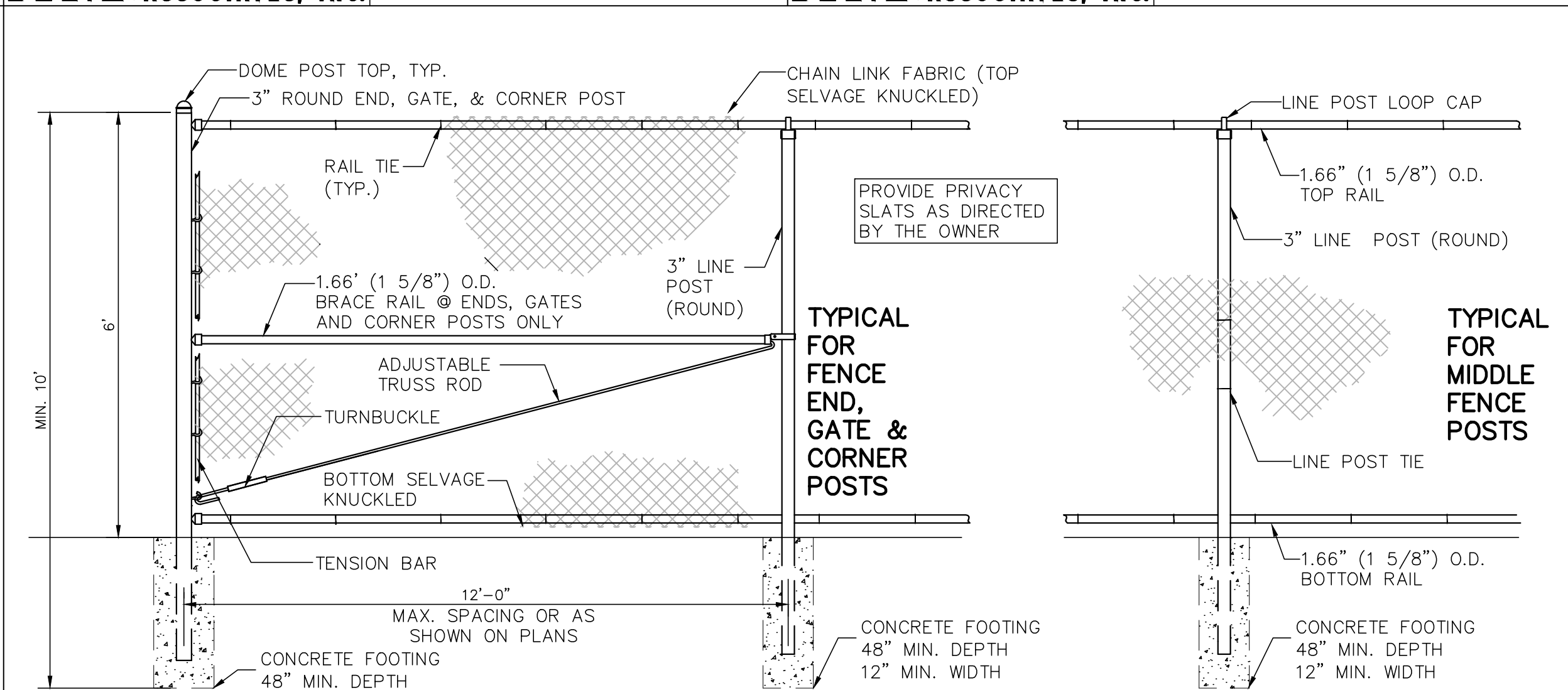
GEWALT HAMILTON ASSOCIATES, INC. CART PATH PAVEMENT DETAIL



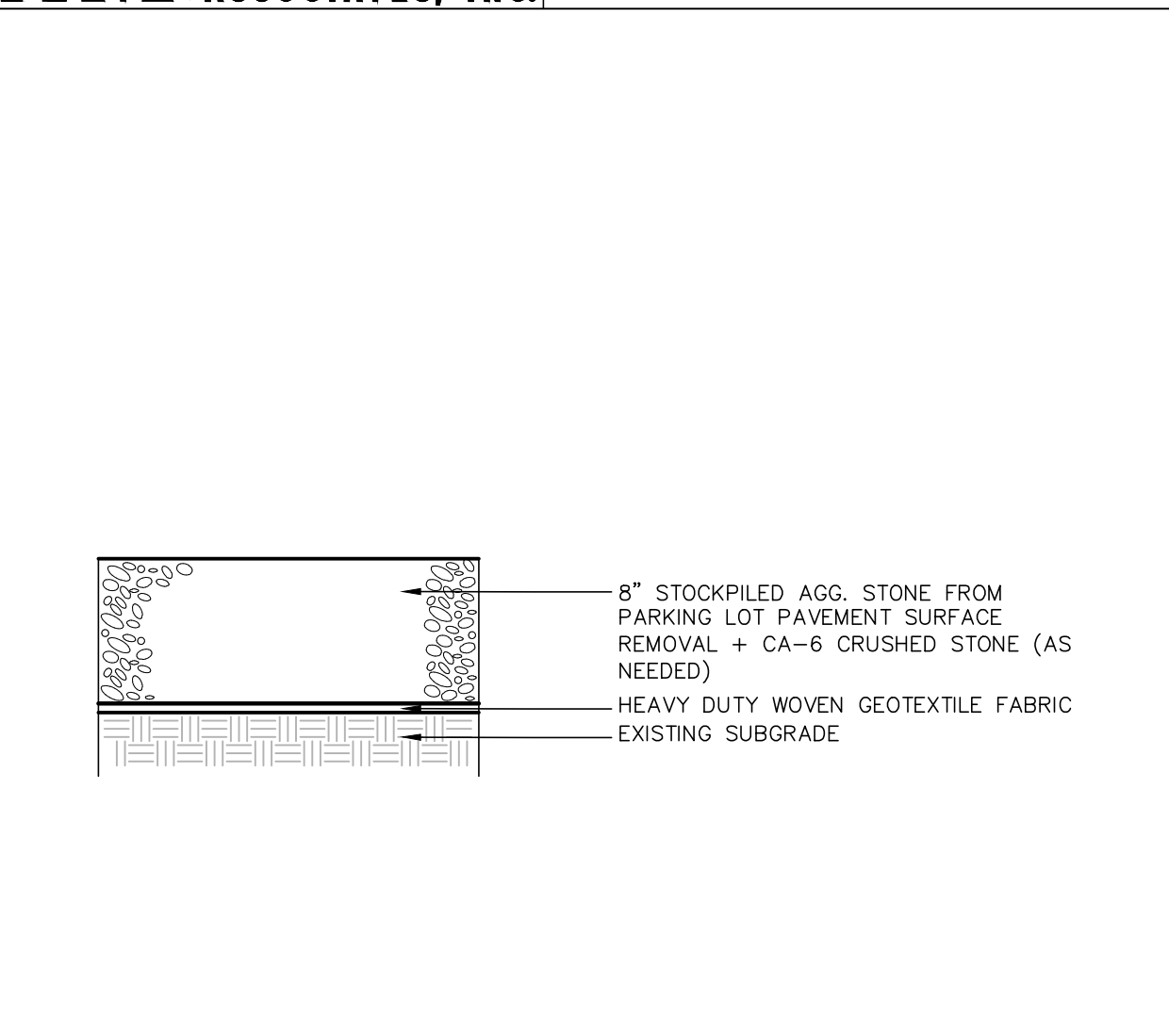
GEWALT HAMILTON ASSOCIATES, INC. 4\"/>



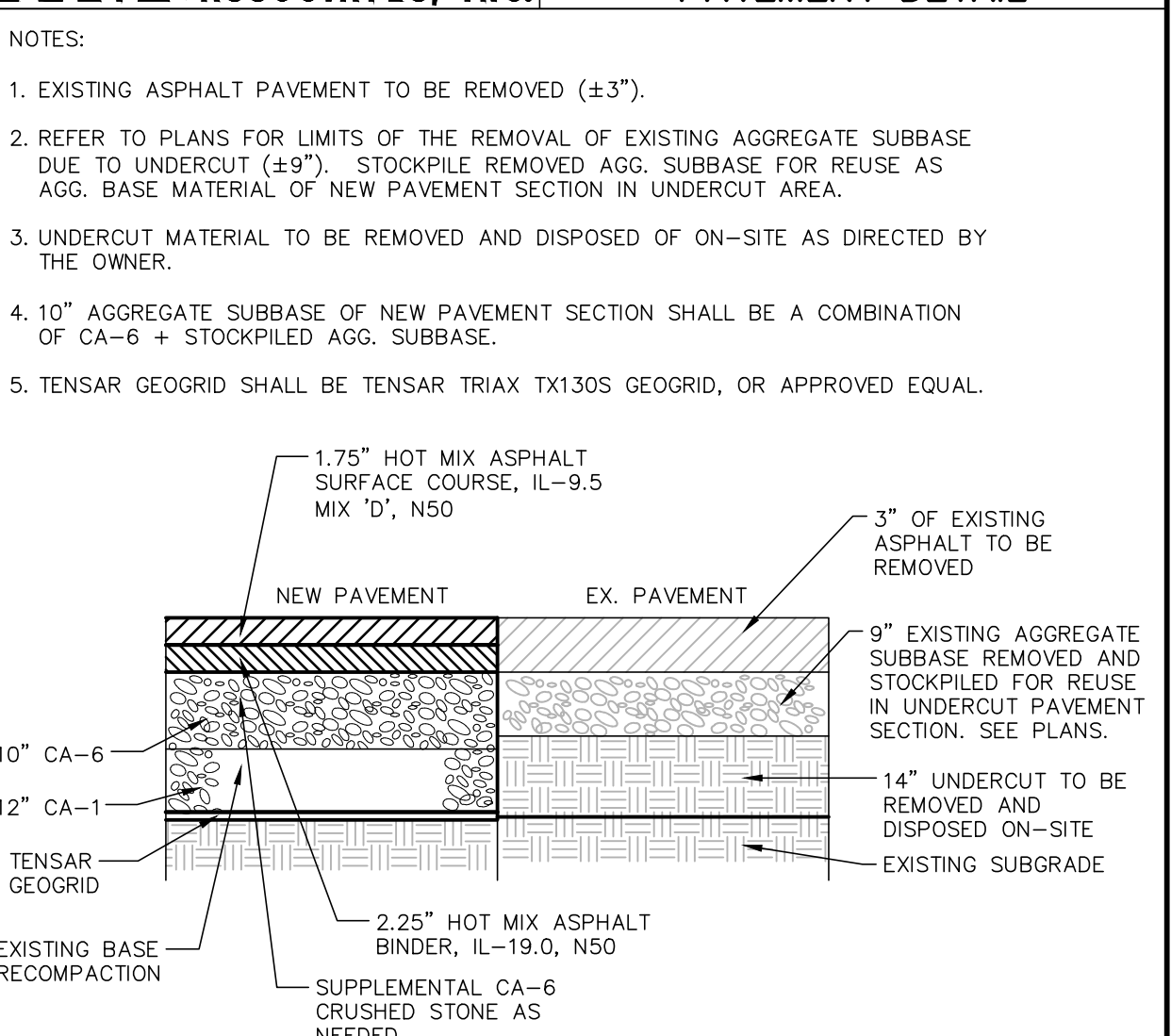
GEWALT HAMILTON ASSOCIATES, INC. 2 LEAF, 6' WIDE SWING GATE



GEWALT HAMILTON ASSOCIATES, INC. 6' FENCE DETAIL



GEWALT HAMILTON ASSOCIATES, INC. GRAVEL STORAGE AREA DETAIL



GEWALT HAMILTON ASSOCIATES, INC. UNDERCUT PAVEMENT PATCH DETAIL

