

PLAYGROUND REPLACEMENTS

MERAMEC STATE PARK

SULLIVAN, MISSOURI



OWNER: STATE OF MISSOURI
 MICHAEL L. PARSON,
 GOVERNOR
 DEPARTMENT OF NATURAL RESOURCES
 MISSOURI STATE PARKS

PROJECT MANAGEMENT: OFFICE OF ADMINISTRATION
 DIVISION OF FACILITIES MANAGEMENT,
 DESIGN AND CONSTRUCTION

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DG2 DESIGN MISSOURI STATE
 CERTIFICATE
 OF AUTHORITY #LC1126925

DESIGNER: DG2 DESIGN

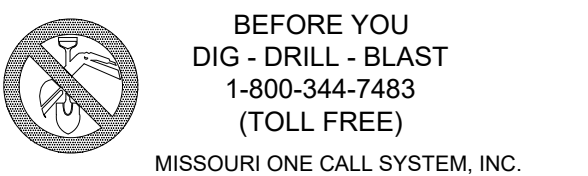
PROJECT NUMBER: X2108-01

SITE NUMBER: MERAMEC #5214

ASSET NUMBER: #7815100007



STATE VICINITY MAP



GENERAL NOTES:

- THESE NOTES PERTAIN TO ALL CONSTRUCTION AND THE FOLLOWING DOCUMENTS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION AND EXISTENCE OF ANY UTILITIES NOT SHOWN. ALL UTILITIES SHALL BE LOCATED AND MARKED BOTH HORIZONTALLY AND VERTICALLY TO ENSURE CLEARANCE OF ANY PROPOSED SITE WORK. UTILITY COMPANY REPRESENTATIVES SHALL BE ON SITE DURING TIMES OF EXCAVATION IN THE VICINITY OF THEIR FACILITIES. ANY DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS TO BE ADDRESSED TO OWNER'S REPRESENTATIVE PRIOR TO CONTINUATION OF WORK.
- ALL ELEVATIONS ARE BASED ON INFORMATION PROVIDED BY THE OWNER.
- ALL EXCAVATION, WHETHER THEY ARE UTILITY TRENCHES OR FOOTING EXCAVATIONS, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) "CONSTRUCTION STANDARDS FOR EXCAVATION."
- PRIOR TO BEGINNING ANY WORK ON THE SITE, THE CONTRACTOR SHALL CONTACT THE OWNER/LANDSCAPE ARCHITECT FOR SPECIFIC INSTRUCTIONS RELEVANT TO THE SEQUENCING OF WORK.
- THE CONTRACTOR SHALL RESTORE TO ORIGINAL CONDITION ALL "OFF SITE" AREAS/PROPERTY AND EASEMENTS DISTURBED BY HIS OPERATIONS.
- THE CONTRACTOR SHALL KEEP EXISTING ROADWAYS AND SIDEWALKS CLEAN OF MUD AND DEBRIS AT ALL TIMES.
- CONTRACTOR SHALL VERIFY THE LOCATION OF THE EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION OPERATIONS AND PROTECT THE UTILITIES DURING THIS WORK.
- SEED AND STRAW ALL DISTURBED AREAS NOT NOTED TO BE IMPROVED PER WRITTEN SPECIFICATIONS.
- CONTRACTOR TO PROVIDE SAMPLES AND MOCK-UPS OF ALL MATERIALS PER SPECIFICATIONS FOR LANDSCAPE ARCHITECT'S APPROVAL. COLORS TO BE REVIEWED AND APPROVED BY LANDSCAPE ARCHITECT.
- GENERAL CONTRACTOR SHALL COORDINATE ALL WORK BETWEEN ELECTRICAL, PLUMBING, LANDSCAPE, IRRIGATION CONTRACTORS, AND OTHER TRADES.
- ALL MATERIAL TYPES, COLORS, FINISHES, AND PROCESSES SHALL BE SELECTED AND APPROVED BY OWNER'S REPRESENTATIVE / LANDSCAPE ARCHITECT.
- ALL PAVING TO BE LAID OUT IN THE FIELD BY THE CONTRACTOR FOR APPROVAL BY OWNER'S REPRESENTATIVE / LANDSCAPE ARCHITECT PRIOR TO ANY CONSTRUCTION.
- DO NOT DISTURB ANY UTILITIES UNLESS NOTED OTHERWISE.
- USE OF EXPLOSIVES AND BURNING ON-SITE WILL NOT BE PERMITTED.
- SIGNS, LIGHTS, AND BARRICADES SHALL BE INSTALLED AT LOCATIONS NECESSARY TO MAINTAIN A SAFE WORK SITE CONDITION AS DIRECTED/APPROVED BY THE OWNER, AND IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO ACCOMPLISH THIS WORK. THE COST OF THESE PERMITS SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
- ALL QUESTIONS REGARDING THESE CONSTRUCTION DOCUMENTS SHALL BE SUBMITTED IN WRITING TO THE GENERAL CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR THEIR OWN HORIZONTAL AND VERTICAL CONTROL, REFERENCE POINTS AND CONSTRUCTION STAKING AS INCIDENTAL TO THE PROJECT.
- CONTRACTOR TO FIELD VERIFY ALL BOUNDARY AND TOPOGRAPHIC INFORMATION AREA PRIOR TO BEGINNING WORK.
- EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE LOCATION BASED ON AVAILABLE INFORMATION. CONTRACTOR TO FIELD VERIFY LOCATION OF ANY EXISTING UTILITIES AND OTHER FACILITIES BEFORE COMMENCING WORK. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR BY HIS FAILURE TO LOCATE AND PRESERVE ANY AND ALL EXISTING FACILITIES.
- CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR UTILITY LINES TO SERVE THEIR INTENDED PURPOSE AND SHALL BE RESPONSIBLE FOR THE REROUTING OF LINES WHICH MAY CONFLICT WITH OTHER UTILITIES AND SITE FEATURES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR NOTIFICATION OF ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS OR PERSONS IN CHARGE OF PRIVATE OR PUBLIC UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL BARRICADES, WARNING SIGNS, FLASHING LIGHTS AND TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH LOCAL AGENCIES DURING CONSTRUCTION.
- CONTRACTOR SHALL PREPARE A SET OF "AS-BUILT" DRAWINGS SHOWING ANY FIELD CHANGES MADE TO THE APPROVED PLANS AND SUBMIT TO THE DESIGN CONSULTANT FOR SUBMISSION TO CITY ENGINEER AND/OR OWNER.
- ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER.
- UNLESS STATED OTHERWISE IN THE CONTRACT DOCUMENTS, IF THERE IS A CONFLICT WITH INFORMATION PRESENTED IN THE DRAWINGS AND THE SPECIFICATIONS, THEN THE SPECIFICATIONS PREVAIL.

LAYOUT NOTES:

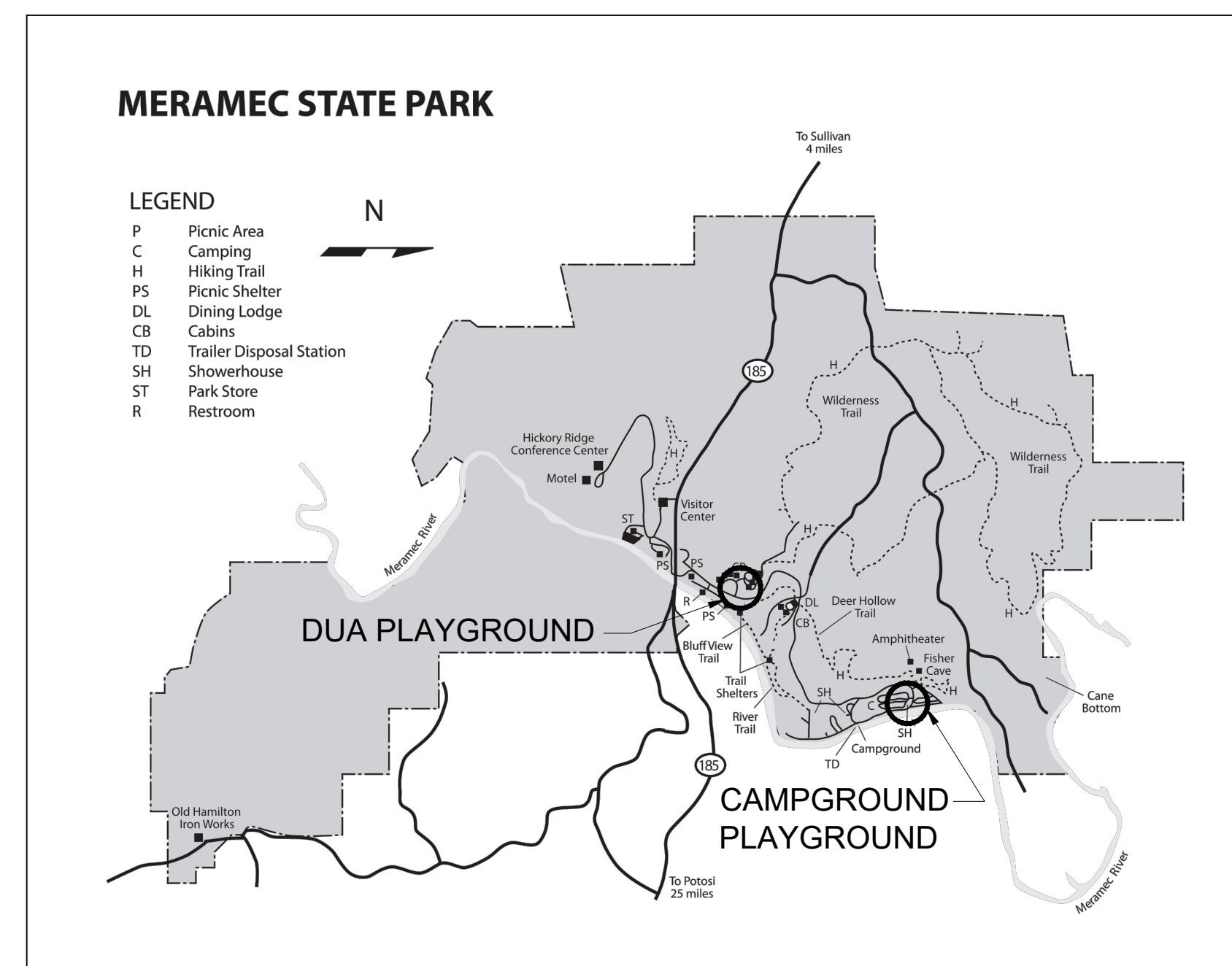
- DO NOT SCALE DRAWINGS. USE DIMENSIONS SHOWN.
- SITE DIMENSIONS ARE TO FACE OF CURB, FACE OF WALL, PROPERTY LINE, OR FACE OF BUILDING UNLESS OTHERWISE NOTED. ALL DIMENSIONS AND RADII TO OR FROM CURB LINES ARE TO FACE OF CURB.
- ALL WALKWAY SURFACES SHALL BE BELOW 5% SLOPE, 2% MAX CROSS SLOPE AND SHALL MEET ALL ADA REQUIREMENTS UNLESS INDICATED OTHERWISE.
- COORDINATES ALONG CURVED WALKS ARE TO THE CENTERLINE.

GRADING NOTES:

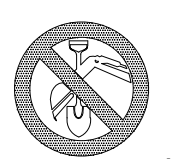
- CONTRACTOR SHALL VERIFY ALL EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT. CONTRACTOR SHALL STAKE ALL ELEVATIONS TO BE APPROVED BY THE LANDSCAPE ARCHITECT BEFORE CONSTRUCTION.
- ALL LINES AND GRADE WORK NOT PRESENTLY ESTABLISHED AT THE SITE SHALL BE LAID OUT BY A REGISTERED LAND SURVEYOR OR PROFESSIONAL CIVIL ENGINEER EMPLOYED BY THE CONTRACTOR IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR SHALL ESTABLISH PERMANENT BENCHMARKS AND BOUNDS AND REPLACE ANY WHICH ARE DESTROYED OR DISTURBED.
- THE WORDS 'FINISHED GRADE' (F.G.) SHALL MEAN THE REQUIRED FINAL GRADE ELEVATIONS INDICATED ON THE DRAWINGS.
- SPOT ELEVATIONS SHALL GOVERN OVER PROPOSED CONTOURS.
- CONTRACTOR SHALL ENSURE CONSISTENT SLOPE BETWEEN SPOT ELEVATIONS.
- AT RIDGE LINES, HIGH POINTS AND LOW POINTS, CONTRACTOR SHALL TRANSITION GRADE TO AVOID A POINT OR SHARP EDGE.
- SEE EXISTING SURVEY DRAWINGS FOR ALL AREA DRAIN LOCATIONS AND INVERT LOCATIONS.
- CONTRACTOR SHALL NOT PERFORM WORK OUTSIDE THE DESIGNATED SITE BOUNDARY. IF FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION SHALL BE OBTAINED BY CONTRACTOR FROM THE AFFECTED PROPERTY OWNERS.
- ALL SIDEWALKS, STOOPS, TERRACES AND OTHER PAVED AREAS SHALL SLOPE AWAY FROM BUILDING(S) AT 2.0% MAXIMUM.

DRAWING SHEET INDEX:

- G0.1 COVER SHEET 1
- G0.2 COVER SHEET 2
- S1.0 CAMPGROUND SITE CONSTRUCTION LIMITS AND EROSION CONTROL PLAN
- S1.1 DUA SITE CONSTRUCTION LIMITS AND EROSION CONTROL PLAN
- S1.2 EROSION CONTROL DETAILS AND NOTES
- G1.0 CAMPGROUND PLAYGROUND LAYOUT PLAN
- G1.1 CAMPGROUND PLAYGROUND GRADING PLAN
- G1.2 OVERALL DUA PLAYGROUND LAYOUT PLAN
- G1.3 ENLARGED SOUTH DUA PLAYGROUND LAYOUT PLAN
- G1.4 ENLARGED SOUTH DUA PLAYGROUND GRADING PLAN
- G1.5 ENLARGED NORTH DUA PLAYGROUND LAYOUT PLAN
- G1.6 ENLARGED NORTH DUA PLAYGROUND GRADING PLAN
- G1.7 NOT USED
- G1.8 SITE DETAILS
- G1.9 SITE DETAILS



PARK VICINITY MAP



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PLAYGROUND
REPLACEMENTS

MERAMEC STATE PARK
SULLIVAN, MO

PROJECT # X2108-01
ASSET #7815100007
MERAMEC STATE PARK
115 MERAMEC PARK DRIVE
SULLIVAN, MO

REVISION: _____
DATE: _____
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DATE: _____
ISSUE DATE: _____

CAD DWG FILE: _____
DRAWN BY: JB
CHECKED BY: JB, KD
DESIGNED BY: JB, KD

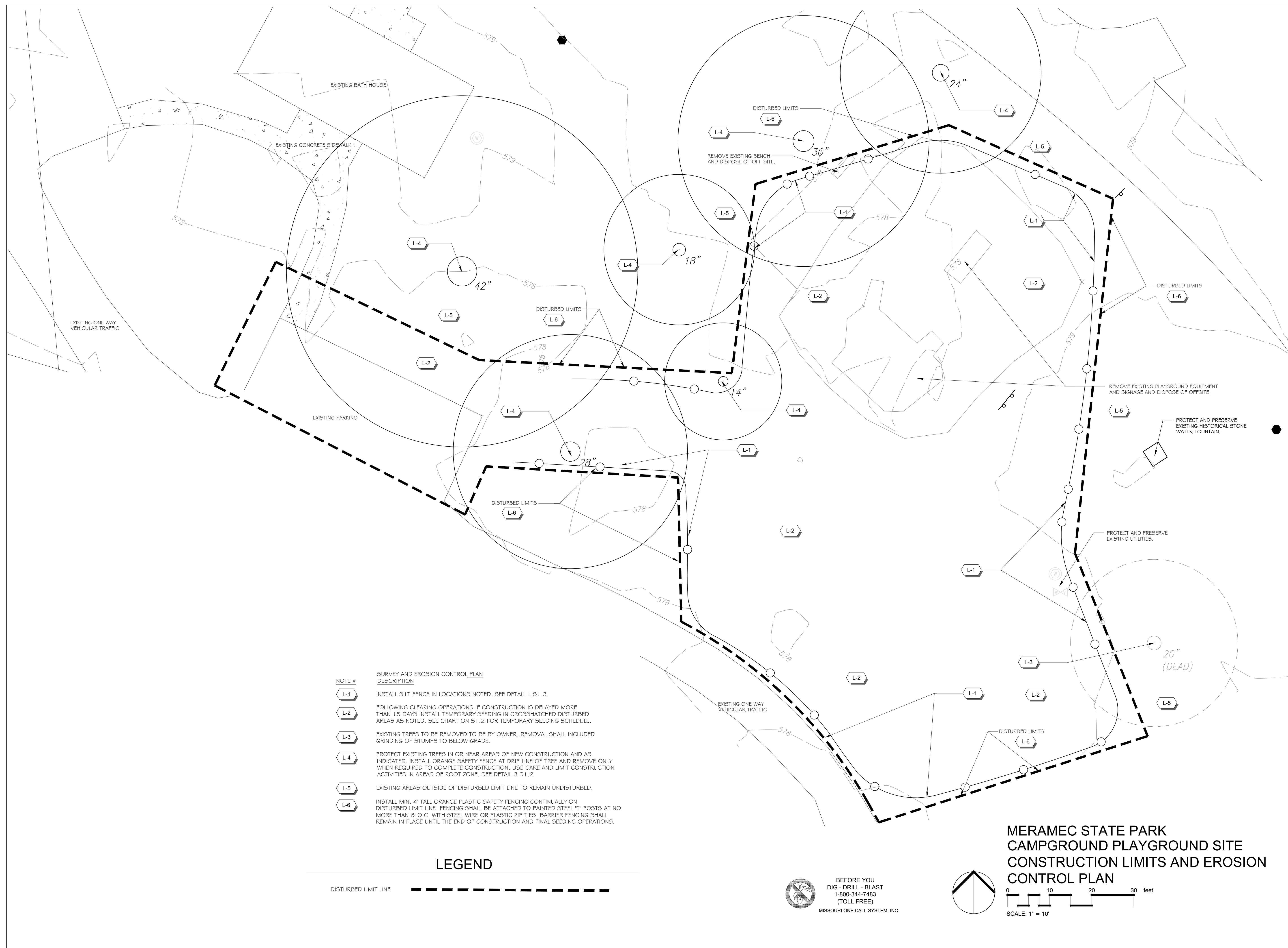
SHEET TITLE:

CAMPGROUND
SITE CONSTRUCTION
LIMITS AND EROSION
CONTROL PLAN

SHEET NUMBER:

S1.0
SHEET 3 OF 14

3/7/2023

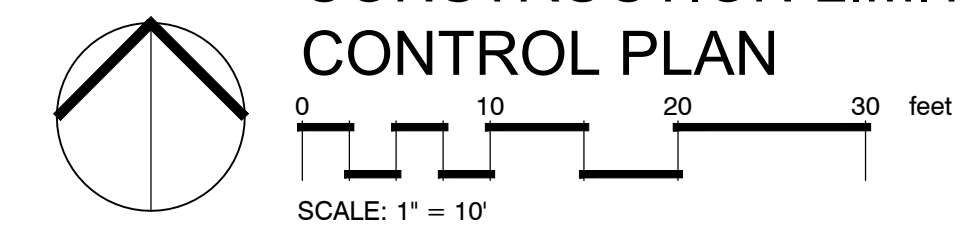


NOTE #	SURVEY AND EROSION CONTROL PLAN DESCRIPTION
L-1	INSTALL SILT FENCE IN LOCATIONS NOTED. SEE DETAIL 1, S1.3.
L-2	FOLLOWING CLEARING OPERATIONS IF CONSTRUCTION IS DELAYED MORE THAN 15 DAYS INSTALL TEMPORARY SEEDING IN CROSSHATCHED DISTURBED AREAS AS NOTED. SEE CHART ON S1.2 FOR TEMPORARY SEEDING SCHEDULE.
L-3	EXISTING TREES TO BE REMOVED TO BE BY OWNER. REMOVAL SHALL INCLUDE GRINDING OF STUMPS TO BELOW GRADE.
L-4	PROTECT EXISTING TREES IN OR NEAR AREAS OF NEW CONSTRUCTION AND AS INDICATED. INSTALL ORANGE SAFETY FENCE AT DRIP LINE OF TREE AND REMOVE ONLY WHEN REQUIRED TO COMPLETE CONSTRUCTION. USE CARE AND LIMIT CONSTRUCTION ACTIVITIES IN AREAS OF ROOT ZONE. SEE DETAIL 3 S1.2
L-5	EXISTING AREAS OUTSIDE OF DISTURBED LIMIT LINE TO REMAIN UNDISTURBED.
L-6	INSTALL MIN. 4' TALL ORANGE PLASTIC SAFETY FENCING CONTINUALLY ON DISTURBED LIMIT LINE. FENCING SHALL BE ATTACHED TO PAINTED STEEL "T" POSTS AT NO MORE THAN 8' O.C. WITH STEEL WIRE OR PLASTIC ZIP TIES. BARRIER FENCING SHALL REMAIN IN PLACE UNTIL THE END OF CONSTRUCTION AND FINAL SEEDING OPERATIONS.

LEGEND



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**MERAMEC STATE PARK
CAMPGROUND PLAYGROUND SITE
CONSTRUCTION LIMITS AND EROSION
CONTROL PLAN**

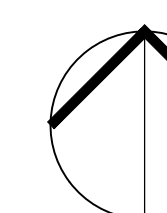


- | NOTE # | SURVEY AND EROSION CONTROL PLAN DESCRIPTION |
|--------|---|
| L-1 | INSTALL WATTLE CHECK DAM IN LOCATIONS AS NOTED. SEE DETAIL 2 51-2. |
| L-2 | FOLLOWING CLEARING OPERATIONS IF CONSTRUCTION IS DELAYED MORE THAN 15 DAYS INSTALL TEMPORARY SEEDING IN CROSSHATCHED DISTURBED AREAS AS NOTED. SEE CHART 51.2 FOR TEMPORARY SEEDING SCHEDULE. |
| L-3 | EXISTING TREES TO BE REMOVED TO BE BY OWNER. REMOVAL SHALL INCLUDED GRINDING OF STUMPS TO BELOW GRADE. |
| L-4 | PROTECT EXISTING TREES IN OR NEAR AREAS OF NEW CONSTRUCTION AND AS INDICATED. INSTALL ORANGE SAFETY FENCE AT DRIP LINE OF TREE AND REMOVE ONLY WHEN REQUIRED TO COMPLETE CONSTRUCTION. USE CARE AND LIMIT CONSTRUCTION ACTIVITIES IN AREAS OF ROOT ZONE. SEE DETAIL 3 51.2. |
| L-5 | EXISTING AREAS OUTSIDE OF DISTURBED LIMIT LINES TO REMAIN UNDISTURBED. |
| L-6 | INSTALL MIN. 4' TALL ORANGE PLASTIC SAFETY FENCING CONTINUALLY ON DISTURBED LIMIT LINE. FENCING SHALL BE ATTACHED TO PAINTED STEEL "T" POSTS AT NO MORE THAN 8' O.C. WITH STEEL WIRE OR PLASTIC ZIP TIES. BARRIER FENCING SHALL REMAIN IN PLACE UNTIL THE END OF CONSTRUCTION AND FINAL SEEDING OPERATIONS. |
| L-7 | PROTECT AND REPAIR EXISTING CONCRETE BASKETBALL COURT. |

SPECIAL NOTE: ALL CONTRACTORS SHALL COORDINATE THE GRADING SCHEDULE AND GROUND DISTURBANCE ACTIVITIES WITH THE STATE ARCHEOLOGIST FOR THE DUA PLAYGROUND SITE. AN ARCHEOLOGIST MUST BE ON SITE TO MONITOR "ALL" GRADING AND GROUND DISTURBANCE ACTIVITIES. NO WORK CAN OCCUR SURROUNDING THE PLAYGROUND WITHOUT THE ARCHEOLOGIST PRESENT FOR MONITORING.

LEGEND

DISTURBED LIMIT LINE



0 20 40 60 feet
SCALE: 1" = 20'



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ISSUE DATE: _____

CAD DWG FILE: _____
DRAWN BY: **JB**
CHECKED BY: **JB, KD**
DESIGNED BY: **JB, KD**

SHEET TITLE:
**EROSION CONTROL
DETAILS AND NOTES**

SHEET NUMBER:

S1.2
SHEET 5 OF 14

3/7/2023

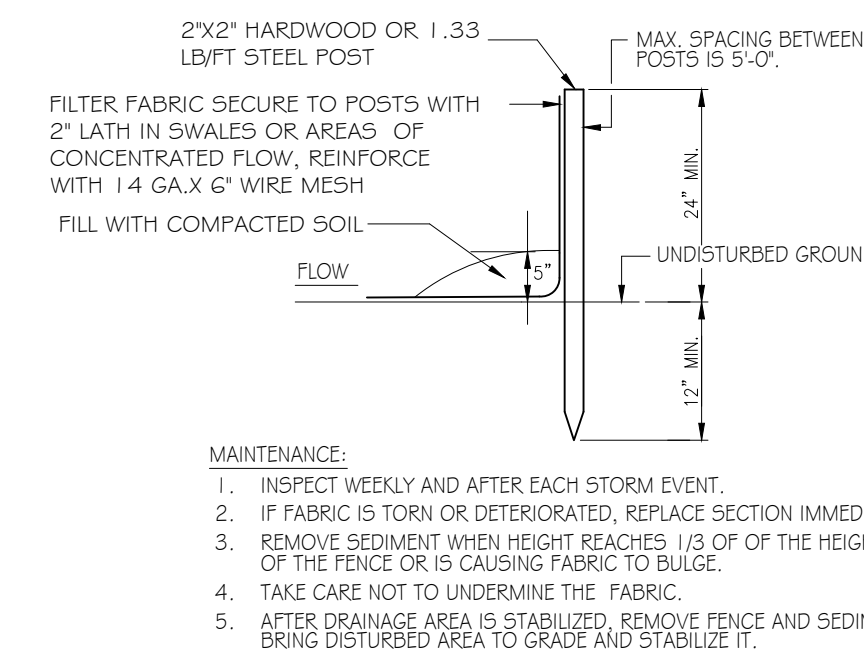
STABILIZATION PRACTICE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING		A										
DORMANT SEEDING												
MULCHING												

A = SEED MIX AS SUPPLIED BY THE STATE @ LBS / 1000 S.F.
PLUS MULCH
FERTILIZE AS RECOMMENDED BY SOIL TEST. IF TESTING IS NOT DONE, APPLY 10 LBS / 1000 S.F. ACRE OF 15-20-10 ANALYSIS, OR EQUIVALENT, FERTILIZER.

B = SEED MIX AS SUPPLIED BY THE STATE @ LBS / 1000 S.F.
PLUS MULCH
FERTILIZE AS RECOMMENDED BY SOIL TEST. IF TESTING IS NOT DONE, APPLY 10 LBS / 1000 S.F. ACRE OF 15-20-10 ANALYSIS, OR EQUIVALENT, FERTILIZER.

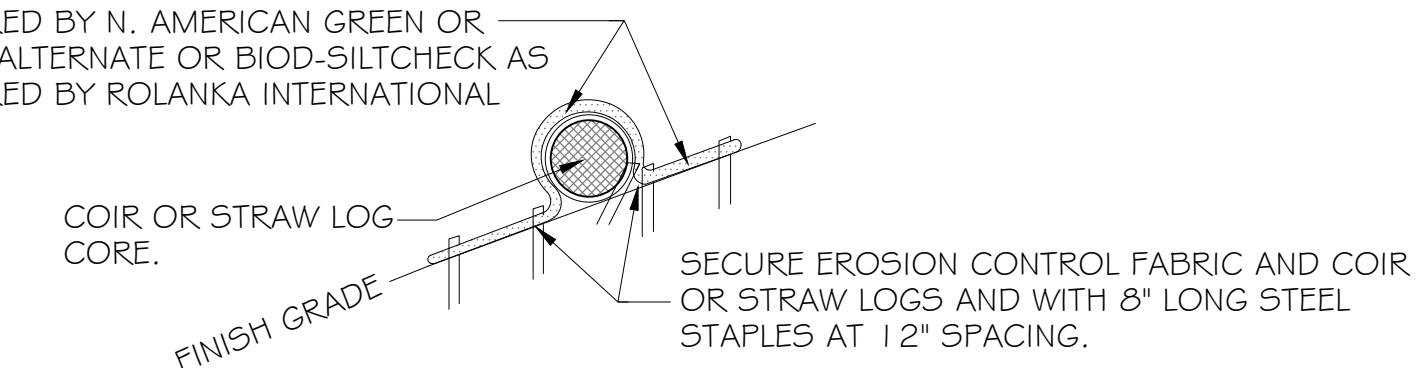
C = HYDRO MULCH 2000 LBS / ACRE OR STRAW MULCH 2 TONS/ACRE ON BARE GROUND OR GRADED AREAS.

* / * - IRRIGATION NEEDED DURING JUNE, JULY, AUGUST AND/OR SEPTEMBER.



1 SILT FENCE DETAIL
NTS

INSTALL COIR OR STRAW LOGS WITH OVERLAY OF 5150 EROSION CONTROL FABRIC AS MANUFACTURED BY N. AMERICAN GREEN OR ACCEPTABLE ALTERNATE OR BIOD-SILT CHECK AS MANUFACTURED BY ROLANKA INTERNATIONAL



2 WATTLE CHECK DAM DETAIL
NTS

**GENERAL SURVEY AND
EROSION CONTROL NOTES**

ALL CONTRACTORS BUT NOT LIMITED TO THE EXCAVATING CONTRACTOR OR CONTRACTORS MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. ACTUAL FIELD LOCATIONS OF ALL THE EXISTING UTILITIES ARE THE CONTRACTORS RESPONSIBILITY AND MUST BE LOCATED EITHER BY THE REPRESENTATIVE OF THE UTILITY COMPANY OR BY A PRIVATE UNDERGROUND UTILITY LOCATING COMPANY PRIOR TO THE START OF EXCAVATING. VERIFY MINIMUM COVER REQUIREMENTS BY THE UTILITY CONTRACTOR OR CONTRACTORS OR AGENCIES WHOEVER HAS JURISDICTION SO NOT TO CAUSE DAMAGE.

EXISTING PAVEMENT, SIDEWALKS CURBS DRIVEWAYS, ELECTRICAL TRANSFORMER, DITCHES, DRAINAGE PIPES AND STRUCTURES, FENCES, LAWNS, TREES, BUSHES, MAILBOXES, SIGNS, POWER POLES ETC., TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. ANY DAMAGE DURING CONSTRUCTION SHALL BE RESTORED, RECONSTRUCTED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE. ALL DAMAGES SHALL BE RESTORED OR RE-PLACED TO AT LEAST THEIR ORIGINAL CONDITION OR AS REQUIRED OR DICTATED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL GOVERNING AGENCIES.

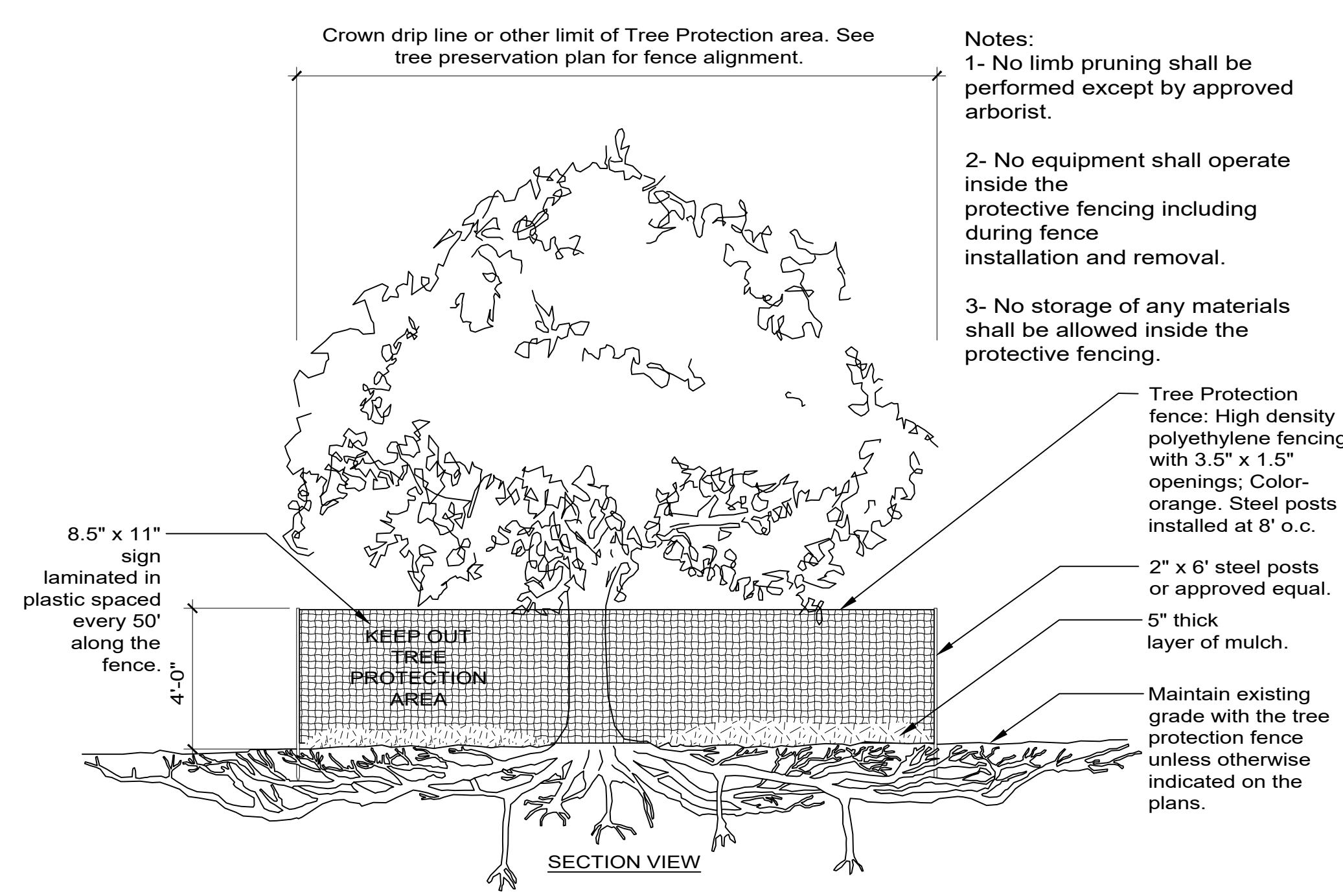
IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR CONTRACTORS TO OBTAIN ALL FEDERAL, STATE, COUNTY, CITY, AND LOCAL PERMITS FOR ANY AND ALL WORK REQUIRED UNLESS OTHERWISE NOTED. THIS INCLUDES THE SUBMITTAL OF SOIL EROSION & SEDIMENT CONTROL PLANS AS REQUIRED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL EROSION CONTROL DEVICES AS NECESSARY AND AS REQUIRED BY GOVERNING AGENCIES TO CONTROL SOIL LOSS FROM THE SITE. THE CONTRACTOR SHALL MAINTAIN DRAINAGE AND EROSION CONTROL DURING ENTIRE CONSTRUCTION SCHEDULE AND IS RESPONSIBLE FOR ALL DE-WATERING NECESSARY DURING CONSTRUCTION.

IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY ALL THE UTILITY COMPANIES AND DEPARTMENTS 72 HOURS BEFORE CONSTRUCTION IS TO START TO VERIFY ANY UTILITIES THAT MAY BE PRESENT ON SITE. ALL VERIFICATIONS, LOCATIONS, SIZE AND DEPTHS SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES OR DEPARTMENTS. WHEN EXCAVATING AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY 50 A REPRESENTATIVE OF THE UTILITY CAN BE PRESENT DURING THE EXCAVATION TO INSTRUCT AND OBSERVE DURING THE EXCAVATION.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT EACH DAY AND REMOVE ALL MUD, DIRT, GRAVEL AND LOOSE MATERIALS TRACKED, DUMPED, SPILLED OR WIND BLOWN FROM THIS SITE ON OTHER SITES, RIGHT OF WAYS, PUBLIC OR PRIVATE STREETS OR ROADS, DRIVEWAYS, YARDS OR SIDEWALKS. THE CONTRACTOR MUST CLEAN OR PICK UP DAILY IF NECESSARY. THE CONTRACTOR SHALL REDUCE THE AIRBORNE DUST DURING THE ENTIRE CONSTRUCTION SCHEDULE. WATER MAY BE USED AS A REDUCER.

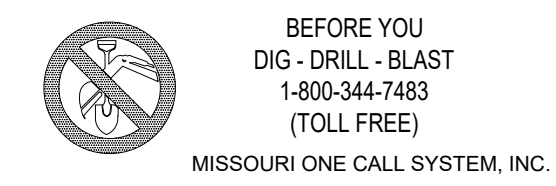
THE UTILITIES INDICATED ON THESE PLANS MAY NOT BE A COMPLETE INVENTORY OF ALL THE EXISTING UTILITIES PRESENT ON AND AROUND THIS SITE. THE LOCATIONS AND SIZES OF THESE UTILITIES ARE APPROXIMATE. THIS INFORMATION WAS GATHERED OR SUPPLIED FROM OTHERS AND USED BY THE ARCHITECT AND OR ENGINEER AND MAY NOT BE ACTUAL. THE ARCHITECT AND OR ENGINEER MAY NOT BE HELD LIABLE FOR ANY INCORRECT OR MISLEADING UTILITY INFORMATION INDICATED, IMPLIED OR NOT INDICATED ON THESE PLANS. THE CONTRACTOR SHALL HAVE ALL UTILITIES FLAGGED IN THE FIELD FOR INSPECTION PRIOR TO PROCEEDING WITH ANY GRADING OPERATIONS. THE CONTRACTOR SHALL VERIFY THE DEPTH AND LOCATION OF ALL EXISTING UTILITIES AND WILL BE HELD LIABLE FOR ANY DELAYS CAUSED BY DAMAGE TO UTILITIES FOR FAILURE TO LOCATE UTILITIES.



NOTE:
ANY VISIBLE ROOT OVER (1) ONE INCH IN DIAMETER IS TO BE CLEANLY CUT WHERE VISIBLE AT SURFACE LAYER OR DURING TRENCHING OPERATIONS FOR PRESERVED TREES WITHIN 11 FEET OF THE LIMITS OF DISTURBANCE BOUNDARY.

3 TREE PROTECTION DETAILS
NTS

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PLAYGROUND
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SULLIVAN, MO

PROJECT # X2108-01
ASSET #7815100007
MERAMEC STATE PARK
115 MERAMEC PARK DRIVE
SULLIVAN, MO

REVISION: _____
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ISSUE DATE: _____

CAD DWG FILE: _____
DRAWN BY: **JB**
CHECKED BY: **JB, KD**
DESIGNED BY: **JB, KD**

SHEET TITLE:
**CAMPGROUND
PLAYGROUND LAYOUT
PLAN**

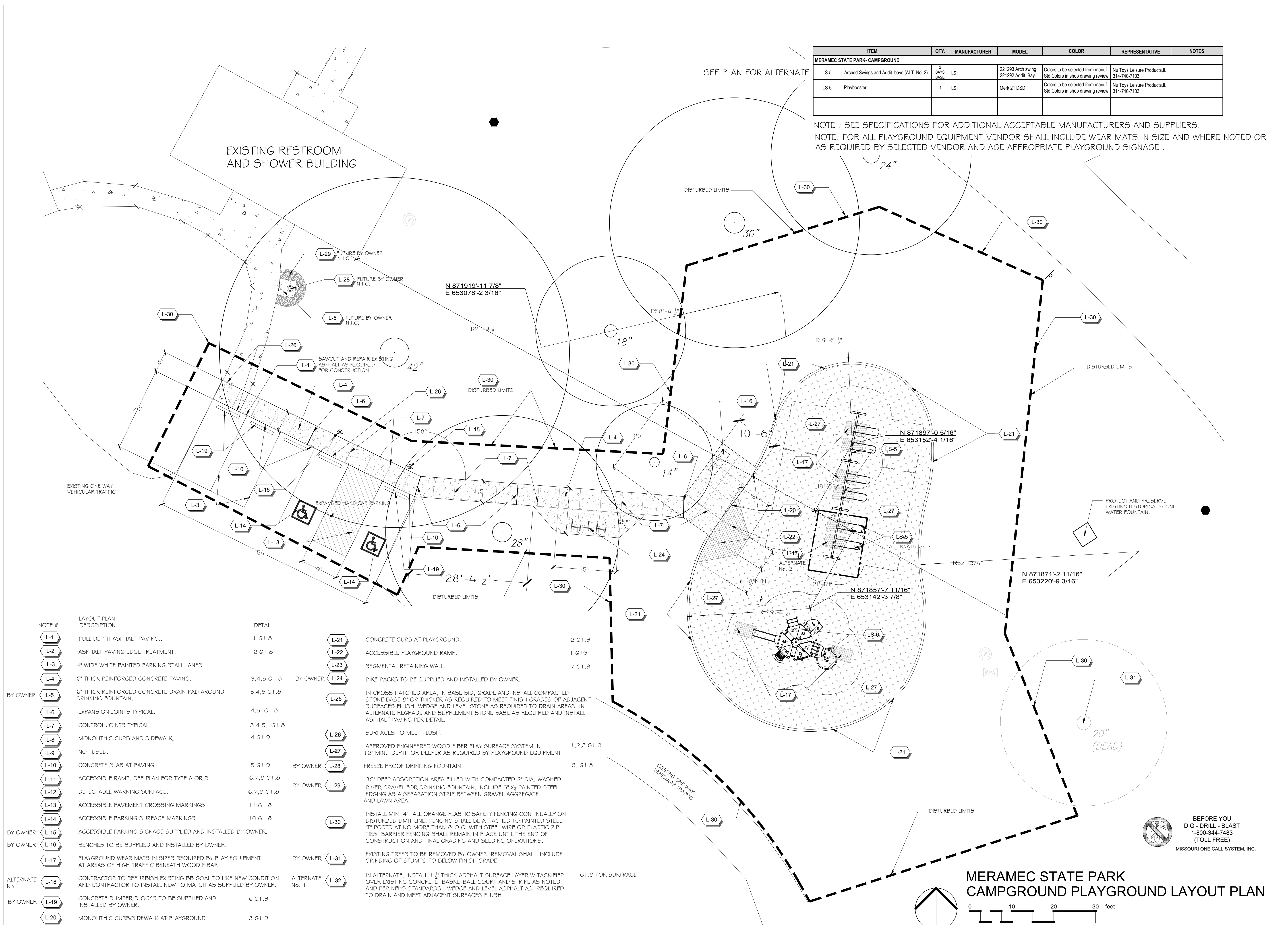
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G1.0
SHEET 6 OF 14

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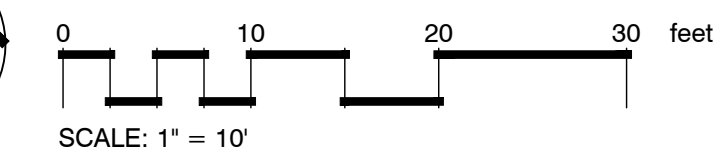
ITEM	QTY.	MANUFACTURER	MODEL	COLOR	REPRESENTATIVE	NOTES
MERAMEC STATE PARK- CAMPGROUND						
LS-5	2	LSI	221293 Arch swing 221292 Addit. Bay	Colors to be selected from manuf. Std. Colors in shop drawing review	No Toys Leisure Products, II. 314-740-7103	
LS-6	1	LSI	Merk 21 DSDI	Colors to be selected from manuf. Std. Colors in shop drawing review	No Toys Leisure Products, II. 314-740-7103	

NOTE : SEE SPECIFICATIONS FOR ADDITIONAL ACCEPTABLE MANUFACTURERS AND SUPPLIERS.
NOTE: FOR ALL PLAYGROUND EQUIPMENT VENDOR SHALL INCLUDE WEAR MATS IN SIZE AND WHERE NOTED OR AS REQUIRED BY SELECTED VENDOR AND AGE APPROPRIATE PLAYGROUND SIGNAGE .



NOTE #	LAYOUT PLAN DESCRIPTION	DETAIL		
L-1	FULL DEPTH ASPHALT PAVING..	1 G1.8	L-21	CONCRETE CURB AT PLAYGROUND. 2 G1.9
L-2	ASPHALT PAVING EDGE TREATMENT.	2 G1.8	L-22	ACCESSIBLE PLAYGROUND RAMP. 1 G1.9
L-3	4" WIDE WHITE PAINTED PARKING STALL LANES.		L-23	SEGMENTAL RETAINING WALL. 7 G1.9
L-4	6" THICK REINFORCED CONCRETE PAVING.	3,4,5 G1.8	L-24	BIKE RACKS TO BE SUPPLIED AND INSTALLED BY OWNER.
L-5	6" THICK REINFORCED CONCRETE DRAIN PAD AROUND DRINKING FOUNTAIN.	3,4,5 G1.8	L-25	IN CROSS HATCHED AREA, IN BASE BID, GRADE AND INSTALL COMPACTED STONE BASE 8" OR THICKER AS REQUIRED TO MEET FINISH GRADES OF ADJACENT SURFACES FLUSH. WEDGE AND LEVEL STONE AS REQUIRED TO DRAIN AREAS. IN ALTERNATE REGRADE AND SUPPLEMENT STONE BASE AS REQUIRED AND INSTALL ASPHALT PAVING PER DETAIL.
L-6	EXPANSION JOINTS TYPICAL.	4,5 G1.8	L-26	SURFACES TO MEET FLUSH.
L-7	CONTROL JOINTS TYPICAL.	3,4,5, G1.8	L-27	APPROVED ENGINEERED WOOD FIBER PLAY SURFACE SYSTEM IN 12" MIN. DEPTH OR DEEPER AS REQUIRED BY PLAYGROUND EQUIPMENT. 1,2,3 G1.9
L-8	MONOLITHIC CURB AND SIDEWALK.	4 G1.9	L-28	FREEZE PROOF DRINKING FOUNTAIN. 9, G1.8
L-9	NOT USED.		L-29	36" DEEP ABSORPTION AREA FILLED WITH COMPACTED 2" DIA. WASHED RIVER GRAVEL FOR DRINKING FOUNTAIN. INCLUDE 5" x 1/2" PAINTED STEEL EDGING AS A SEPARATION STRIP BETWEEN GRAVEL AGGREGATE AND LAWN AREA.
L-10	CONCRETE SLAB AT PAVING.	5 G1.9	L-30	INSTALL MIN. 4' TALL ORANGE PLASTIC SAFETY FENCING CONTINUALLY ON DISTURBED LIMIT LINE. FENCING SHALL BE ATTACHED TO PAINTED STEEL 1" POSTS AT NO MORE THAN 8' O.C. WITH STEEL WIRE OR PLASTIC ZIP TIES. BARRIER FENCING SHALL REMAIN IN PLACE UNTIL THE END OF CONSTRUCTION AND FINAL GRADING AND SEEDING OPERATIONS.
L-11	ACCESSIBLE RAMP, SEE PLAN FOR TYPE A OR B.	6,7,8 G1.8	L-31	EXISTING TREES TO BE REMOVED BY OWNER. REMOVAL SHALL INCLUDE GRINDING OF STUMPS TO BELOW FINISH GRADE.
L-12	DETECTABLE WARNING SURFACE.	6,7,8 G1.8	L-32	IN ALTERNATE, INSTALL 1 1/2" THICK ASPHALT SURFACE LAYER W TACKIFIER OVER EXISTING CONCRETE BASKETBALL COURT AND STRIPE AS NOTED AND PER NFHS STANDARDS. WEDGE AND LEVEL ASPHALT AS REQUIRED TO DRAIN AND MEET ADJACENT SURFACES FLUSH. 1 G1.8 FOR SURFACE
L-13	ACCESSIBLE PAVEMENT CROSSING MARKINGS.	1,1 G1.8		
L-14	ACCESSIBLE PARKING SURFACE MARKINGS.	10 G1.8		
L-15	ACCESSIBLE PARKING SIGNAGE SUPPLIED AND INSTALLED BY OWNER.			
L-16	BENCHES TO BE SUPPLIED AND INSTALLED BY OWNER.			
L-17	PLAYGROUND WEAR MATS IN SIZES REQUIRED BY PLAY EQUIPMENT AT AREAS OF HIGH TRAFFIC BENEATH WOOD FIBER.			
L-18	CONTRACTOR TO REFURBISH EXISTING BB GOAL TO LIKE NEW CONDITION AND CONTRACTOR TO INSTALL NEW TO MATCH AS SUPPLIED BY OWNER.			
L-19	CONCRETE BUMPER BLOCKS TO BE SUPPLIED AND INSTALLED BY OWNER.	6 G1.9		
L-20	MONOLITHIC CURB/SIDEWALK AT PLAYGROUND.	3 G1.9		

MERAMEC STATE PARK
CAMPGROUND PLAYGROUND LAYOUT PLAN



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OFFICE OF ADMINISTRATION
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PLAYGROUND
REPLACEMENTS

MERAMEC STATE PARK
SULLIVAN, MO

PROJECT # X2108-01
ASSET #7815100007
MERAMEC STATE PARK
115 MERAMEC PARK DRIVE
SULLIVAN, MO

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: _____

CAD DWG FILE: _____
DRAWN BY: **JB**
CHECKED BY: **JB, KD**
DESIGNED BY: **JB, KD**

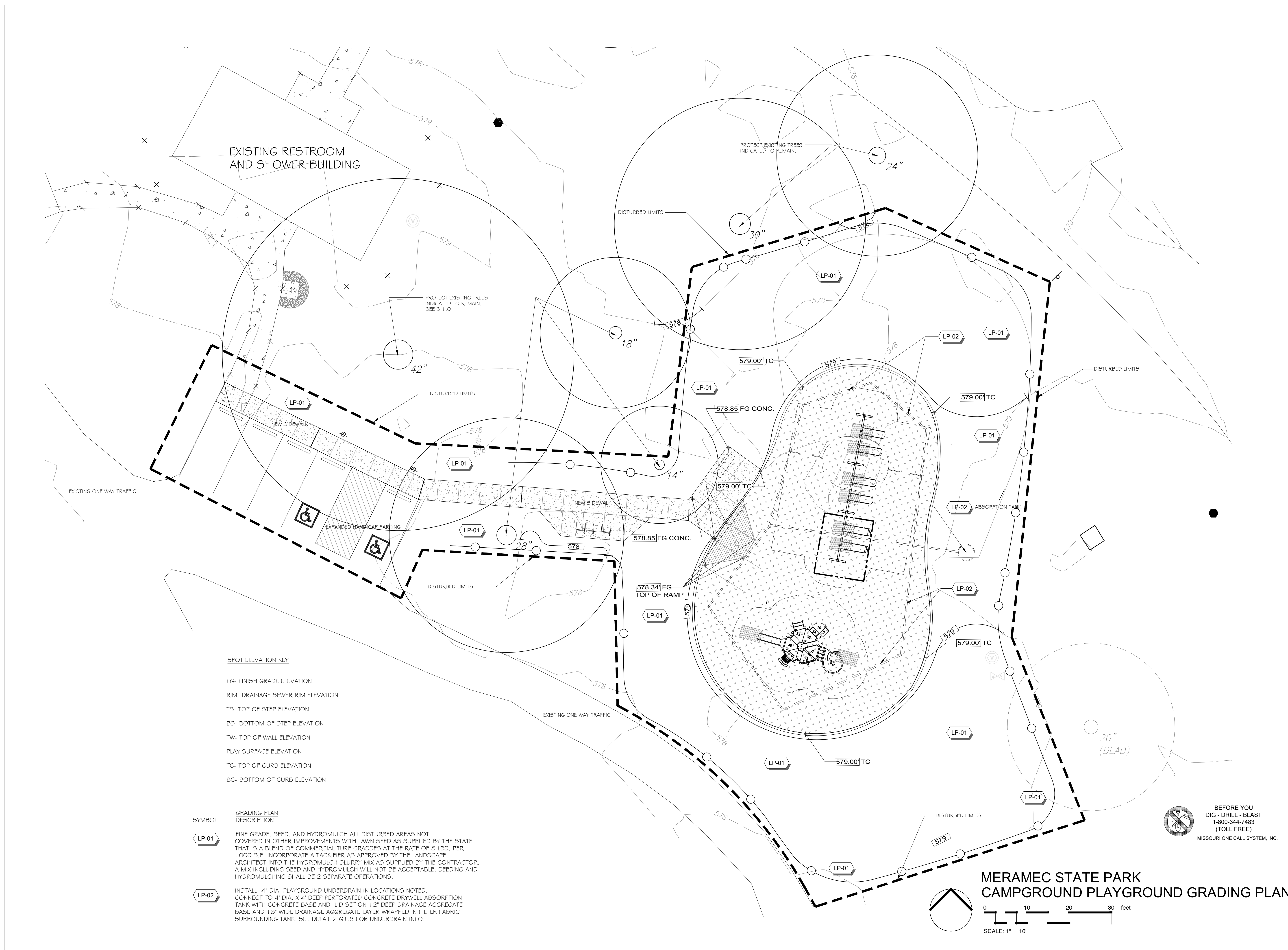
SHEET TITLE:

CAMPGROUND PLAYGROUND
GRADING PLAN

SHEET NUMBER:

G1.1
SHEET 7 OF 14

3/7/2023



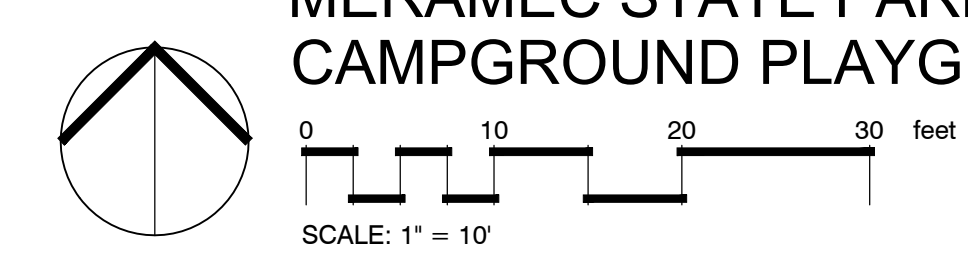
SPOT ELEVATION KEY

FG- FINISH GRADE ELEVATION
RIM- DRAINAGE SEWER RIM ELEVATION
TS- TOP OF STEP ELEVATION
BS- BOTTOM OF STEP ELEVATION
TW- TOP OF WALL ELEVATION
PLAY SURFACE ELEVATION
TC- TOP OF CURB ELEVATION
BC- BOTTOM OF CURB ELEVATION

SYMBOL GRADING PLAN DESCRIPTION

LP-01 FINE GRADE, SEED, AND HYDROMULCH ALL DISTURBED AREAS NOT COVERED IN OTHER IMPROVEMENTS WITH LAWN SEED AS SUPPLIED BY THE STATE THAT IS A BLEND OF COMMERCIAL TURF GRASSES AT THE RATE OF 8 LBS. PER 1000 S.F. INCORPORATE A TACKIFIER AS APPROVED BY THE LANDSCAPE ARCHITECT INTO THE HYDROMULCH SLURRY MIX AS SUPPLIED BY THE CONTRACTOR. A MIX INCLUDING SEED AND HYDROMULCH WILL NOT BE ACCEPTABLE. SEEDING AND HYDROMULCHING SHALL BE 2 SEPARATE OPERATIONS.

LP-02 INSTALL 4\" DIA. PLAYGROUND UNDERDRAIN IN LOCATIONS NOTED. CONNECT TO 4\" DIA. X 4\" DEEP PERFORATED CONCRETE DRYWELL ABSORPTION TANK WITH CONCRETE BASE AND LID SET ON 1 2\" DEEP DRAINAGE AGGREGATE BASE AND 18\" WIDE DRAINAGE AGGREGATE LAYER WRAPPED IN FILTER FABRIC SURROUNDING TANK. SEE DETAIL 2 G1.9 FOR UNDERDRAIN INFO.



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PLAYGROUND
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MERAMEC STATE PARK
SULLIVAN, MO

PROJECT # **X2108-01**
ASSET #7815100007
MERAMEC STATE PARK
115 MERAMEC PARK DRIVE
SULLIVAN, MO

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DESIGNED BY: **JB, KD**

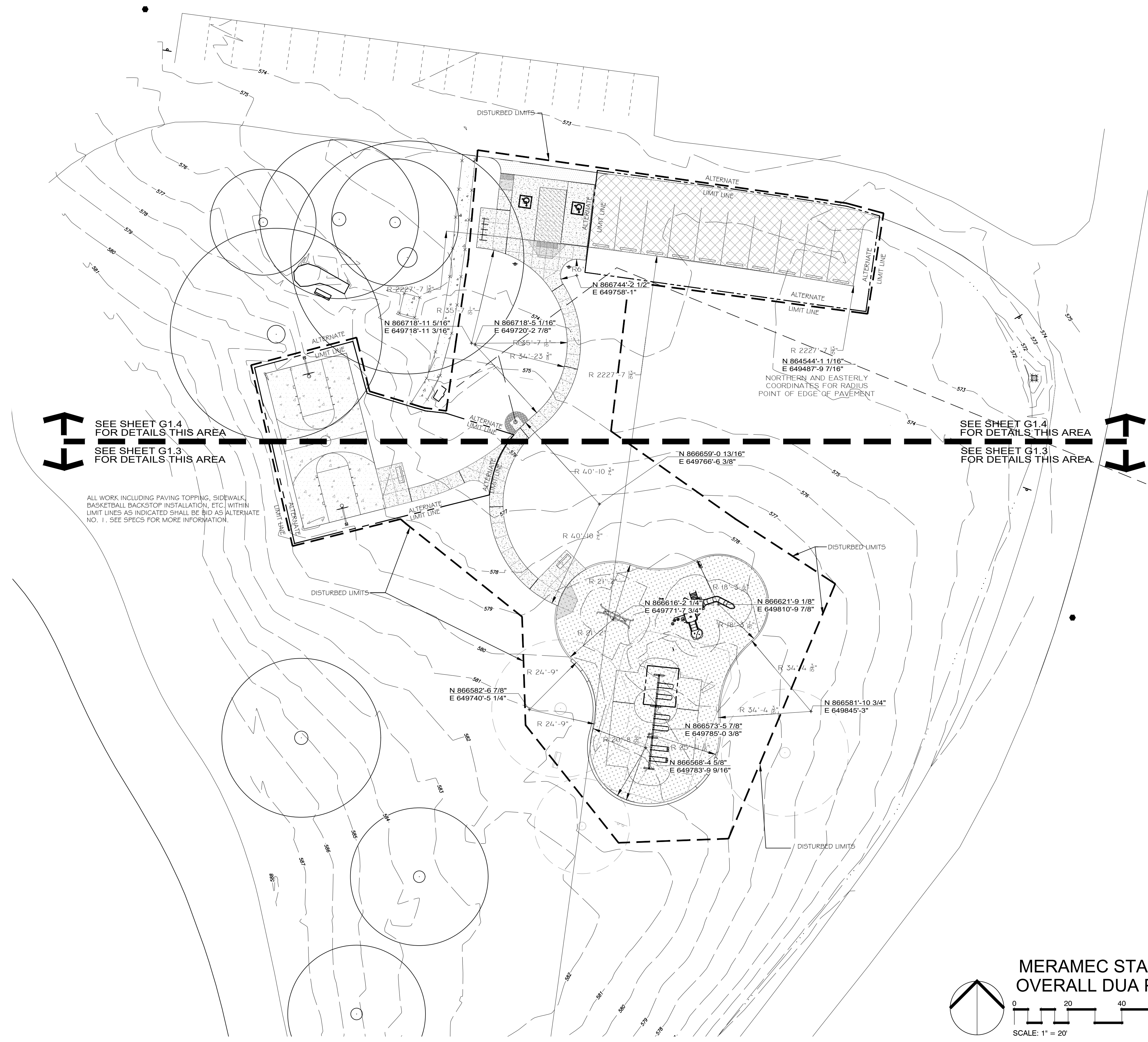
SHEET TITLE:

OVERALL DUA
PLAYGROUND LAYOUT PLAN

SHEET NUMBER:

G1.2
SHEET 8 OF 14

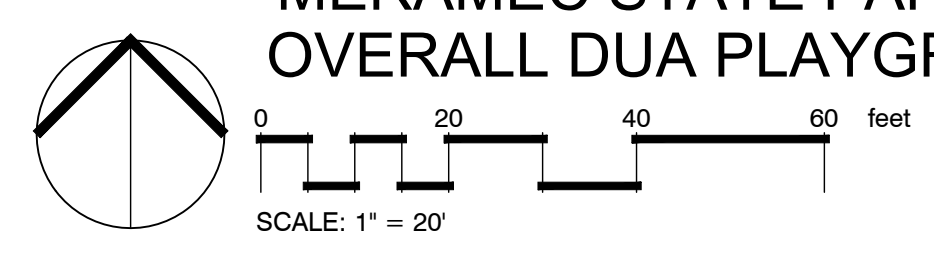
3/7/2023



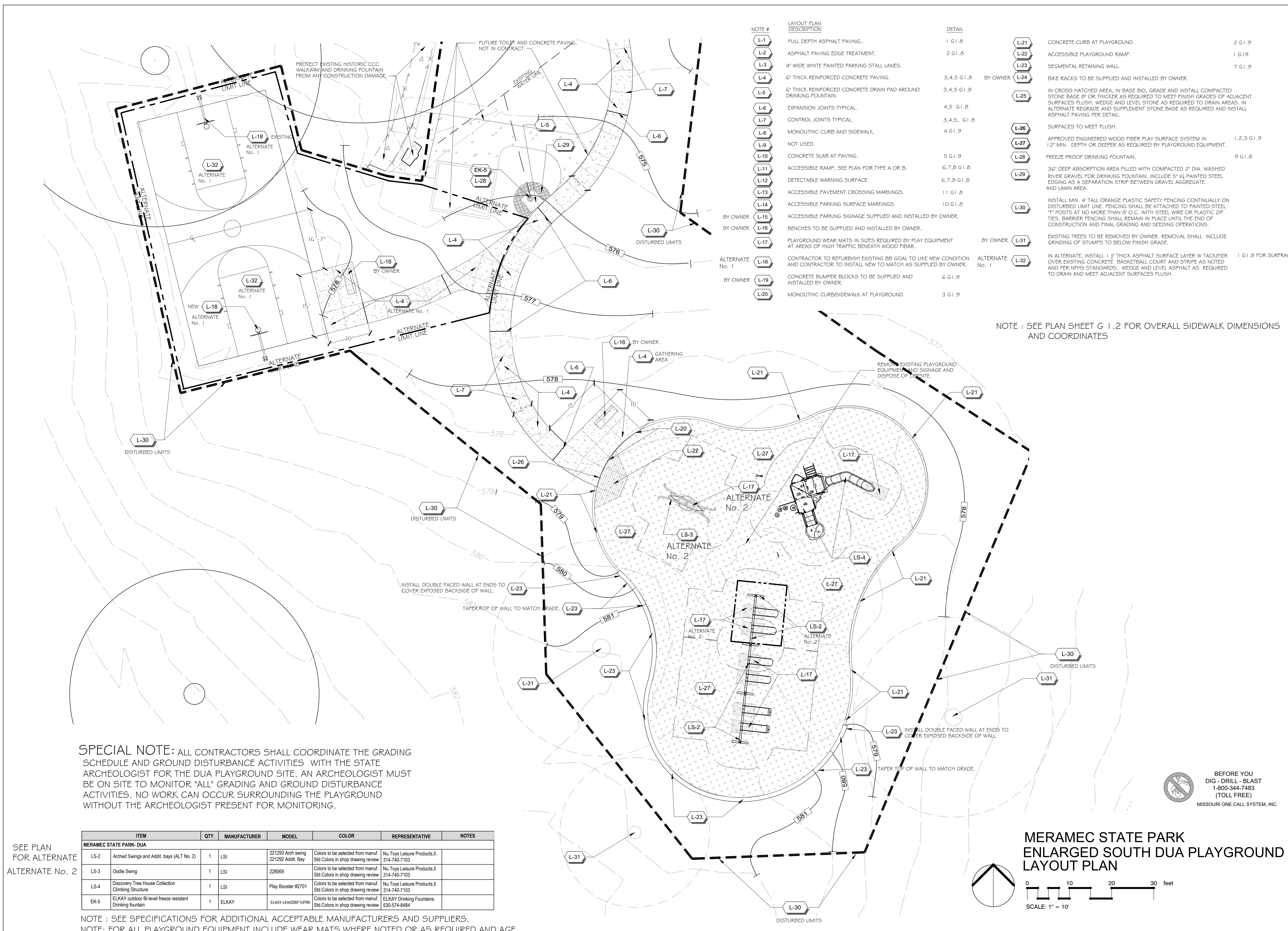
SEE SHEET G1.4
FOR DETAILS THIS AREA

SEE SHEET G1.3
FOR DETAILS THIS AREA

ALL WORK INCLUDING PAVING TOPPING, SIDEWALK,
BASKETBALL BACKSTOP INSTALLATION, ETC. WITHIN
LIMIT LINES AS INDICATED SHALL BE BID AS ALTERNATE
NO. 1. SEE SPECS FOR MORE INFORMATION.



MERAMEC STATE PARK
OVERALL DUA PLAYGROUND LAYOUT PLAN



SEE PLAN
FOR ALTERNATE
ALTERNATE No. 2

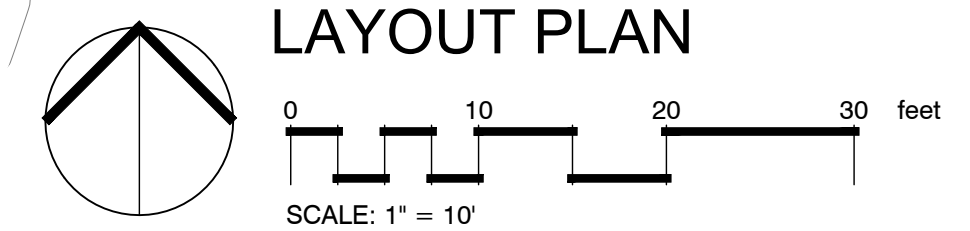
SPECIAL NOTE: ALL CONTRACTORS SHALL COORDINATE THE GRADING SCHEDULE AND GROUND DISTURBANCE ACTIVITIES WITH THE STATE ARCHEOLOGIST FOR THE DUA PLAYGROUND SITE. AN ARCHEOLOGIST MUST BE ON SITE TO MONITOR "ALL" GRADING AND GROUND DISTURBANCE ACTIVITIES. NO WORK CAN OCCUR SURROUNDING THE PLAYGROUND WITHOUT THE ARCHEOLOGIST PRESENT FOR MONITORING.

ITEM	QTY.	MANUFACTURER	MODEL	COLOR	REPRESENTATIVE	NOTES
MERAMEC STATE PARK- DUA						
LS-2	1	LSI	221293 Arch swing 221292 Addit. Bay	Colors to be selected from manuf. Std. Colors in shop drawing review	Nu Toys Leisure Products,II. 314-740-7103	
LS-3	1	LSI	228069	Colors to be selected from manuf. Std. Colors in shop drawing review	Nu Toys Leisure Products,II. 314-740-7103	
LS-4	1	LSI	Play Booster #2701	Colors to be selected from manuf. Std. Colors in shop drawing review	Nu Toys Leisure Products,II. 314-740-7103	
EK-5	1	ELKAY	ELKAY LK4428P1UPRK	Colors to be selected from manuf. Std. Colors in shop drawing review	ELKAY Drinking Fountains. 630-574-8484	

NOTE : SEE SPECIFICATIONS FOR ADDITIONAL ACCEPTABLE MANUFACTURERS AND SUPPLIERS.
NOTE: FOR ALL PLAYGROUND EQUIPMENT INCLUDE WEAR MATS WHERE NOTED OR AS REQUIRED AND AGE APPROPRIATE PLAYGROUND SIGNAGE .

NOTE #	LAYOUT PLAN DESCRIPTION	DETAIL
L-1	FULL DEPTH ASPHALT PAVING..	1 G1.8
L-2	ASPHALT PAVING EDGE TREATMENT.	2 G1.8
L-3	4" WIDE WHITE PAINTED PARKING STALL LANES.	
L-4	6" THICK REINFORCED CONCRETE PAVING.	3,4,5 G1.8 BY OWNER
L-5	6" THICK REINFORCED CONCRETE DRAIN PAD AROUND DRINKING FOUNTAIN.	3,4,5 G1.8
L-6	EXPANSION JOINTS TYPICAL.	4,5 G1.8
L-7	CONTROL JOINTS TYPICAL.	3,4,5, G1.8
L-8	MONOLITHIC CURB AND SIDEWALK.	4 G1.9
L-9	NOT USED.	
L-10	CONCRETE SLAB AT PAVING.	5 G1.9
L-11	ACCESSIBLE RAMP, SEE PLAN FOR TYPE A OR B.	6,7,8 G1.8
L-12	DETECTABLE WARNING SURFACE.	6,7,8 G1.8
L-13	ACCESSIBLE PAVEMENT CROSSING MARKINGS.	11 G1.8
L-14	ACCESSIBLE PARKING SURFACE MARKINGS.	10 G1.8
L-15	ACCESSIBLE PARKING SIGNAGE SUPPLIED AND INSTALLED BY OWNER.	
L-16	BENCHES TO BE SUPPLIED AND INSTALLED BY OWNER.	
L-17	PLAYGROUND WEAR MATS IN SIZES REQUIRED BY PLAY EQUIPMENT AT AREAS OF HIGH TRAFFIC BENEATH WOOD FIBER.	BY OWNER
L-18	CONTRACTOR TO REFURBISH EXISTING BB GOAL TO LIKE NEW CONDITION AND CONTRACTOR TO INSTALL NEW TO MATCH AS SUPPLIED BY OWNER.	ALTERNATE No. 1
L-19	CONCRETE BUMPER BLOCKS TO BE SUPPLIED AND INSTALLED BY OWNER.	6 G1.9
L-20	MONOLITHIC CURB/SIDEWALK AT PLAYGROUND.	3 G1.9
L-21	CONCRETE CURB AT PLAYGROUND.	2 G1.9
L-22	ACCESSIBLE PLAYGROUND RAMP.	1 G1.9
L-23	SEGMENTAL RETAINING WALL.	7 G1.9
L-24	BIKE RACKS TO BE SUPPLIED AND INSTALLED BY OWNER.	
L-25	IN CROSS HATCHED AREA, IN BASE BID, GRADE AND INSTALL COMPACTED STONE BASE 8" OR THICKER AS REQUIRED TO MEET FINISH GRADES OF ADJACENT SURFACES FLUSH. WEDGE AND LEVEL STONE AS REQUIRED TO DRAIN AREAS. IN ALTERNATE REGRADE AND SUPPLEMENT STONE BASE AS REQUIRED AND INSTALL ASPHALT PAVING PER DETAIL.	
L-26	SURFACES TO MEET FLUSH.	
L-27	APPROVED ENGINEERED WOOD FIBER PLAY SURFACE SYSTEM IN 12" MIN. DEPTH OR DEEPER AS REQUIRED BY PLAYGROUND EQUIPMENT.	1,2,3 G1.9
L-28	FREEZE PROOF DRINKING FOUNTAIN.	9 G1.8
L-29	36" DEEP ABSORPTION AREA FILLED WITH COMPACTED 2" DIA. WASHED RIVER GRAVEL FOR DRINKING FOUNTAIN. INCLUDE 5" X3" PAINTED STEEL EDGING AS A SEPARATION STRIP BETWEEN GRAVEL AGGREGATE AND LAWN AREA.	
L-30	INSTALL MIN. 4' TALL ORANGE PLASTIC SAFETY FENCING CONTINUALLY ON DISTURBED LIMIT LINE. FENCING SHALL BE ATTACHED TO PAINTED STEEL "T" POSTS AT NO MORE THAN 8' O.C. WITH STEEL WIRE OR PLASTIC ZIP TIES. BARRIER FENCING SHALL REMAIN IN PLACE UNTIL THE END OF CONSTRUCTION AND FINAL GRADING AND SEEDING OPERATIONS.	
L-31	EXISTING TREES TO BE REMOVED BY OWNER. REMOVAL SHALL INCLUDE GRINDING OF STUMPS TO BELOW FINISH GRADE.	BY OWNER
L-32	IN ALTERNATE, INSTALL 1 1/2" THICK ASPHALT SURFACE LAYER W TACKIFIER OVER EXISTING CONCRETE BASKETBALL COURT AND STRIPE AS NOTED AND PER NFHS STANDARDS. WEDGE AND LEVEL ASPHALT AS REQUIRED TO DRAIN AND MEET ADJACENT SURFACES FLUSH.	1 G1.8 FOR SURFACE

NOTE : SEE PLAN SHEET G 1.2 FOR OVERALL SIDEWALK DIMENSIONS AND COORDINATES





OFFICE OF ADMINISTRATION
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DESIGN AND CONSTRUCTION

PLAYGROUND
REPLACEMENTS

MERAMEC STATE PARK
SULLIVAN, MO

PROJECT # **X2108-01**
ASSET #7815100007
MERAMEC STATE PARK
115 MERAMEC PARK DRIVE
SULLIVAN, MO

REVISION: _____
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CAD DWG FILE: _____
DRAWN BY: **JB**
CHECKED BY: **JB, KD**
DESIGNED BY: **JB, KD**

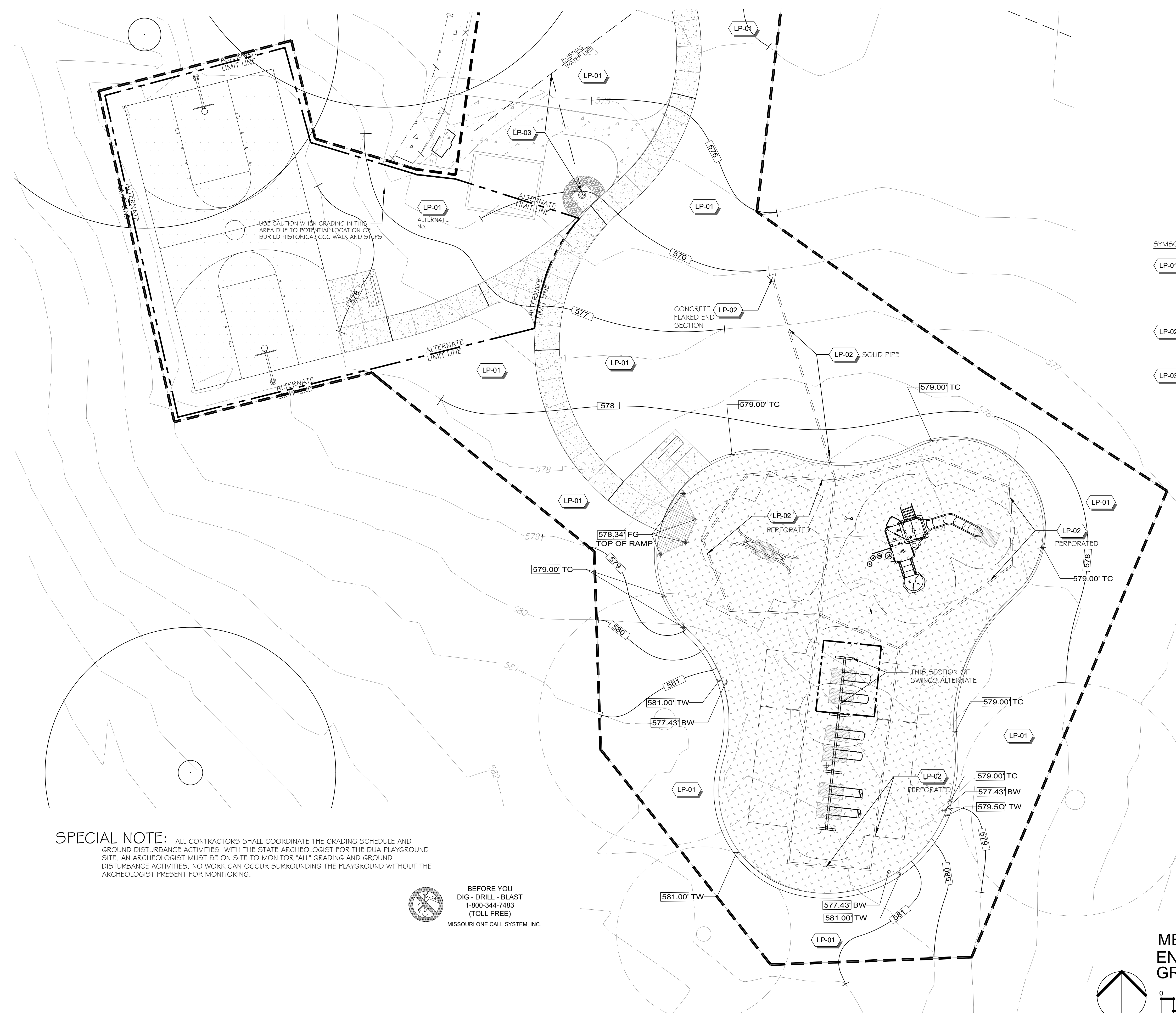
SHEET TITLE:

ENLARGED SOUTH DUA
PLAYGROUND
GRADING PLAN

SHEET NUMBER:

G1.4
SHEET 10 OF 14

3/7/2023




SYMBOL	GRADING PLAN DESCRIPTION
LP-01	FINE GRADE, SEED, AND HYDROMULCH ALL DISTURBED AREAS NOT COVERED IN OTHER IMPROVEMENTS WITH LAWN SEED AS SUPPLIED BY THE STATE THAT IS A BLEND OF COMMERCIAL TURF GRASSES AT THE RATE OF 8 LBS. PER 1000 S.F., INCORPORATE A TACKIFIER AS APPROVED BY THE LANDSCAPE ARCHITECT INTO THE HYDROMULCH SLURRY MIX. A MIX INCLUDING SEED AND HYDROMULCH WILL NOT BE ACCEPTABLE. SEEDING AND HYDROMULCHING SHALL BE 2 SEPARATE OPERATIONS.
LP-02	INSTALL 4" DIA. PLAYGROUND UNDERDRAIN IN LOCATIONS NOTED AND DAYLIGHT AT GRADE IN LOCATION NOTED WITH PRECAST CONCRETE FLARED END SECTION. SEE DETAIL 2 G1.9 FOR TYPICAL UNDERDRAIN DETAIL.
LP-03	CONNECT NEW DRINKING FOUNTAIN TO EXISTING WATER LINE INDICATED IN GENERAL LOCATION AS SHOWN ON PLAN.

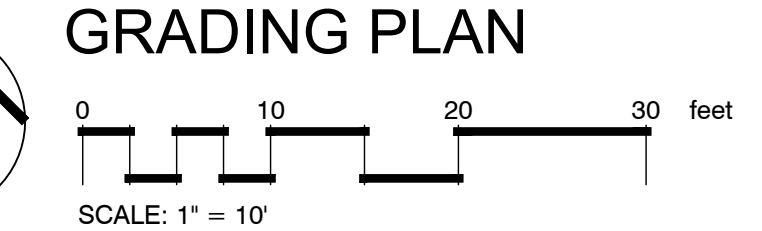
SPOT ELEVATION KEY

FG-	FINISH GRADE ELEVATION
RIM-	DRAINAGE SEWER RIM ELEVATION
TS-	TOP OF STEP ELEVATION
BS-	BOTTOM OF STEP ELEVATION
TW-	TOP OF WALL ELEVATION
BW-	BOTTOM OF WALL ELEVATION
PLAY SURFACE	ELEVATION
TC-	TOP OF CURB ELEVATION
BC-	BOTTOM OF CURB ELEVATION

SPECIAL NOTE: ALL CONTRACTORS SHALL COORDINATE THE GRADING SCHEDULE AND GROUND DISTURBANCE ACTIVITIES WITH THE STATE ARCHEOLOGIST FOR THE DUA PLAYGROUND SITE. AN ARCHEOLOGIST MUST BE ON SITE TO MONITOR ALL GRADING AND GROUND DISTURBANCE ACTIVITIES. NO WORK CAN OCCUR SURROUNDING THE PLAYGROUND WITHOUT THE ARCHEOLOGIST PRESENT FOR MONITORING.

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MISSOURI ONE CALL SYSTEM, INC.

**MERAMEC STATE PARK
ENLARGED SOUTH DUA PLAYGROUND
GRADING PLAN**



SCALE: 1" = 10'



OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

MERAMEC STATE PARK
SULLIVAN, MO

PROJECT # X2108-01
ASSET #7815100007
MERAMEC STATE PARK
115 MERAMEC PARK DRIVE
SULLIVAN, MO

REVISION: _____
DATE: _____
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DATE: _____
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DATE: _____
ISSUE DATE: _____

CAD DWG FILE: _____
DRAWN BY: **JB**
CHECKED BY: **JB, KD**
DESIGNED BY: **JB, KD**

SHEET TITLE:

ENLARGED NORTH DUA
PLAYGROUND LAYOUT
AND GRADING PLAN

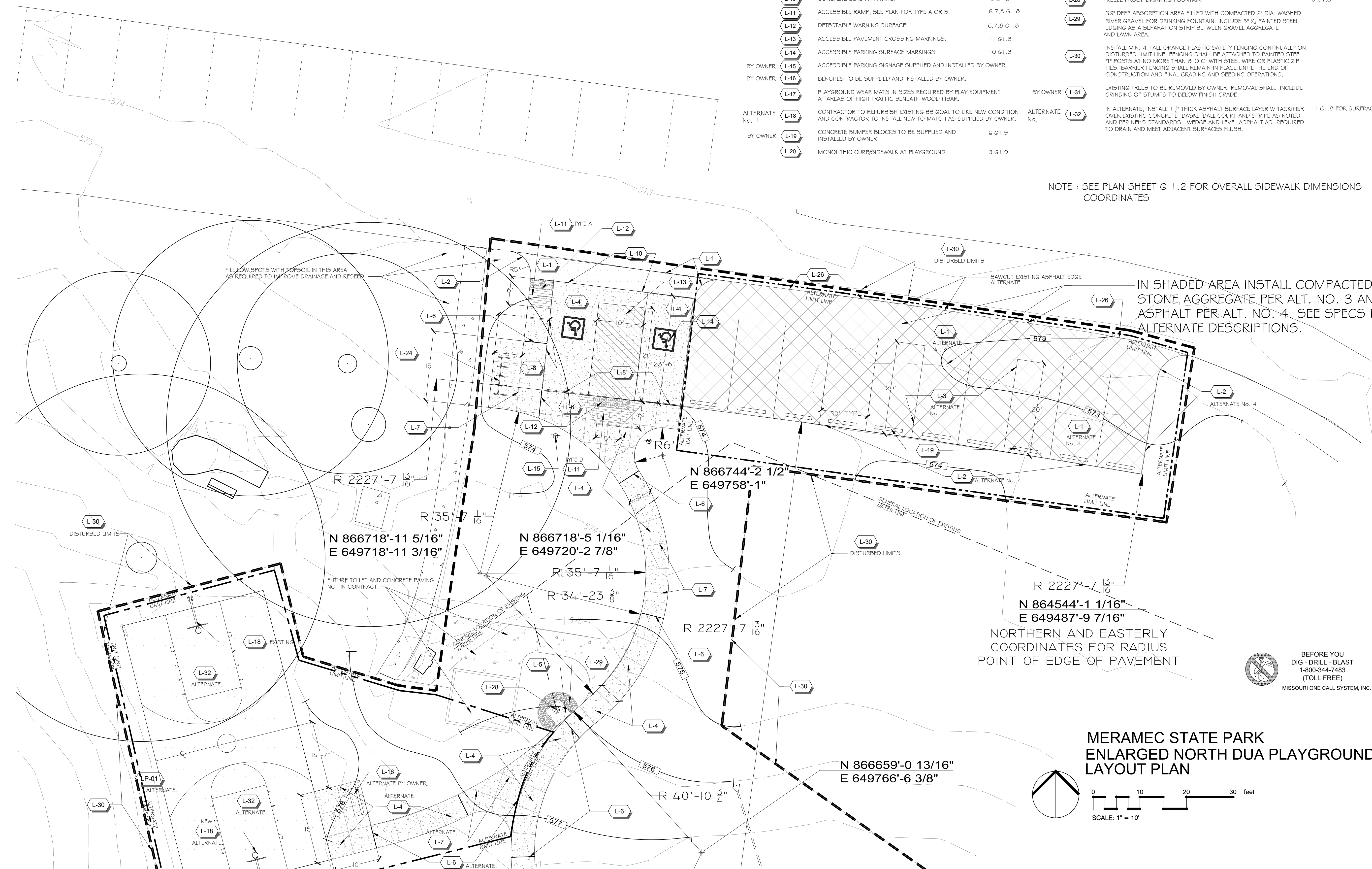
SHEET NUMBER:

G1.5
SHEET 11 OF 14

3/7/2023

NOTE #	LAYOUT PLAN DESCRIPTION	DETAIL	DETAIL
L-1	FULL DEPTH ASPHALT PAVING.	1 G1.8	L-21 CONCRETE CURB AT PLAYGROUND. 2 G1.9
L-2	ASPHALT PAVING EDGE TREATMENT.	2 G1.8	L-22 ACCESSIBLE PLAYGROUND RAMP. 1 G1.9
L-3	4" WIDE WHITE PAINTED PARKING STALL LANES.		L-23 SEGMENTAL RETAINING WALL. 7 G1.9
L-4	6" THICK REINFORCED CONCRETE PAVING.	3,4,5 G1.8	BY OWNER L-24 BIKE RACKS TO BE SUPPLIED AND INSTALLED BY OWNER.
L-5	6" THICK REINFORCED CONCRETE DRAIN PAD AROUND DRINKING FOUNTAIN.	3,4,5 G1.8	L-25 IN CROSS HATCHED AREA, IN BASE BID, GRADE AND INSTALL COMPACTED STONE BASE 8" OR THICKER AS REQUIRED TO MEET FINISH GRADES OF ADJACENT SURFACES FLUSH. WEDGE AND LEVEL STONE AS REQUIRED TO DRAIN AREAS. IN ALTERNATE REGRADE AND SUPPLEMENT STONE BASE AS REQUIRED AND INSTALL ASPHALT PAVING PER DETAIL.
L-6	EXPANSION JOINTS TYPICAL.	4,5 G1.8	L-26 SURFACES TO MEET FLUSH. 1,2,3 G1.9
L-7	CONTROL JOINTS TYPICAL.	3,4,5, G1.8	L-27 APPROVED ENGINEERED WOOD FIBER PLAY SURFACE SYSTEM IN 12" MIN. DEPTH OR DEEPER AS REQUIRED BY PLAYGROUND EQUIPMENT. 1,2,3 G1.9
L-8	MONOLITHIC CURB AND SIDEWALK.	4 G1.9	L-28 FREEZE PROOF DRINKING FOUNTAIN. 9 G1.8
L-9	NOT USED.		L-29 36" DEEP ABSORPTION AREA FILLED WITH COMPACTED 2" DIA. WASHED RIVER GRAVEL FOR DRINKING FOUNTAIN. INCLUDE 5" X 3/4" PAINTED STEEL EDGING AS A SEPARATION STRIP BETWEEN GRAVEL AGGREGATE AND LAWN AREA.
L-10	CONCRETE SLAB AT PAVING.	5 G1.9	L-30 INSTALL MIN. 4" TALL ORANGE PLASTIC SAFETY FENCING CONTINUALLY ON DISTURBED LIMIT LINE. FENCING SHALL BE ATTACHED TO PAINTED STEEL "T" POSTS AT NO MORE THAN 8' O.C. WITH STEEL WIRE OR PLASTIC ZIP TIES. BARRIER FENCING SHALL REMAIN IN PLACE UNTIL THE END OF CONSTRUCTION AND FINAL GRADING AND SEEDING OPERATIONS.
L-11	ACCESSIBLE RAMP, SEE PLAN FOR TYPE A OR B.	6,7,8 G1.8	BY OWNER L-31 EXISTING TREES TO BE REMOVED BY OWNER. REMOVAL SHALL INCLUDE GRINDING OF STUMPS TO BELOW FINISH GRADE.
L-12	DETECTABLE WARNING SURFACE.	6,7,8 G1.8	ALTERNATE No. 1 L-32 IN ALTERNATE, INSTALL 1 1/2" THICK ASPHALT SURFACE LAYER W/ TACKIFIER OVER EXISTING CONCRETE. BASKETBALL COURT AND STRIPE AS NOTED AND PER NFHS STANDARDS. WEDGE AND LEVEL ASPHALT AS REQUIRED TO DRAIN AND MEET ADJACENT SURFACES FLUSH. 1 G1.8 FOR SURFACE
L-13	ACCESSIBLE PAVEMENT CROSSING MARKINGS.	11 G1.8	
L-14	ACCESSIBLE PARKING SURFACE MARKINGS.	10 G1.8	
BY OWNER L-15	ACCESSIBLE PARKING SIGNAGE SUPPLIED AND INSTALLED BY OWNER.		
BY OWNER L-16	BENCHES TO BE SUPPLIED AND INSTALLED BY OWNER.		
BY OWNER L-17	PLAYGROUND WEAR MATS IN SIZES REQUIRED BY PLAY EQUIPMENT AT AREAS OF HIGH TRAFFIC BENEATH WOOD FIBER.		
ALTERNATE No. 1 L-18	CONTRACTOR TO REFURBISH EXISTING BB GOAL TO LIKE NEW CONDITION AND CONTRACTOR TO INSTALL NEW TO MATCH AS SUPPLIED BY OWNER.		
BY OWNER L-19	CONCRETE BUMPER BLOCKS TO BE SUPPLIED AND INSTALLED BY OWNER.	6 G1.9	
L-20	MONOLITHIC CURB/SIDEWALK AT PLAYGROUND.	3 G1.9	

NOTE : SEE PLAN SHEET G 1.2 FOR OVERALL SIDEWALK DIMENSIONS COORDINATES



MERAMEC STATE PARK
ENLARGED NORTH DUA
PLAYGROUND LAYOUT
AND GRADING PLAN

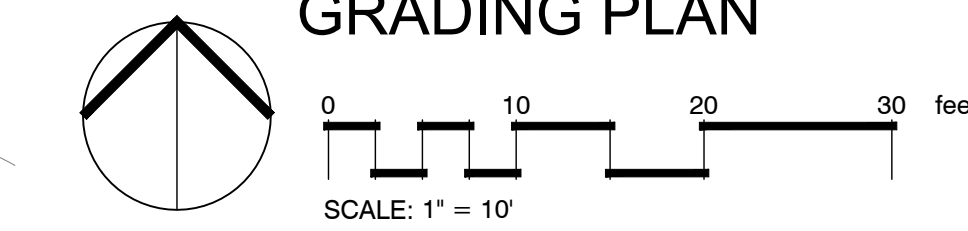
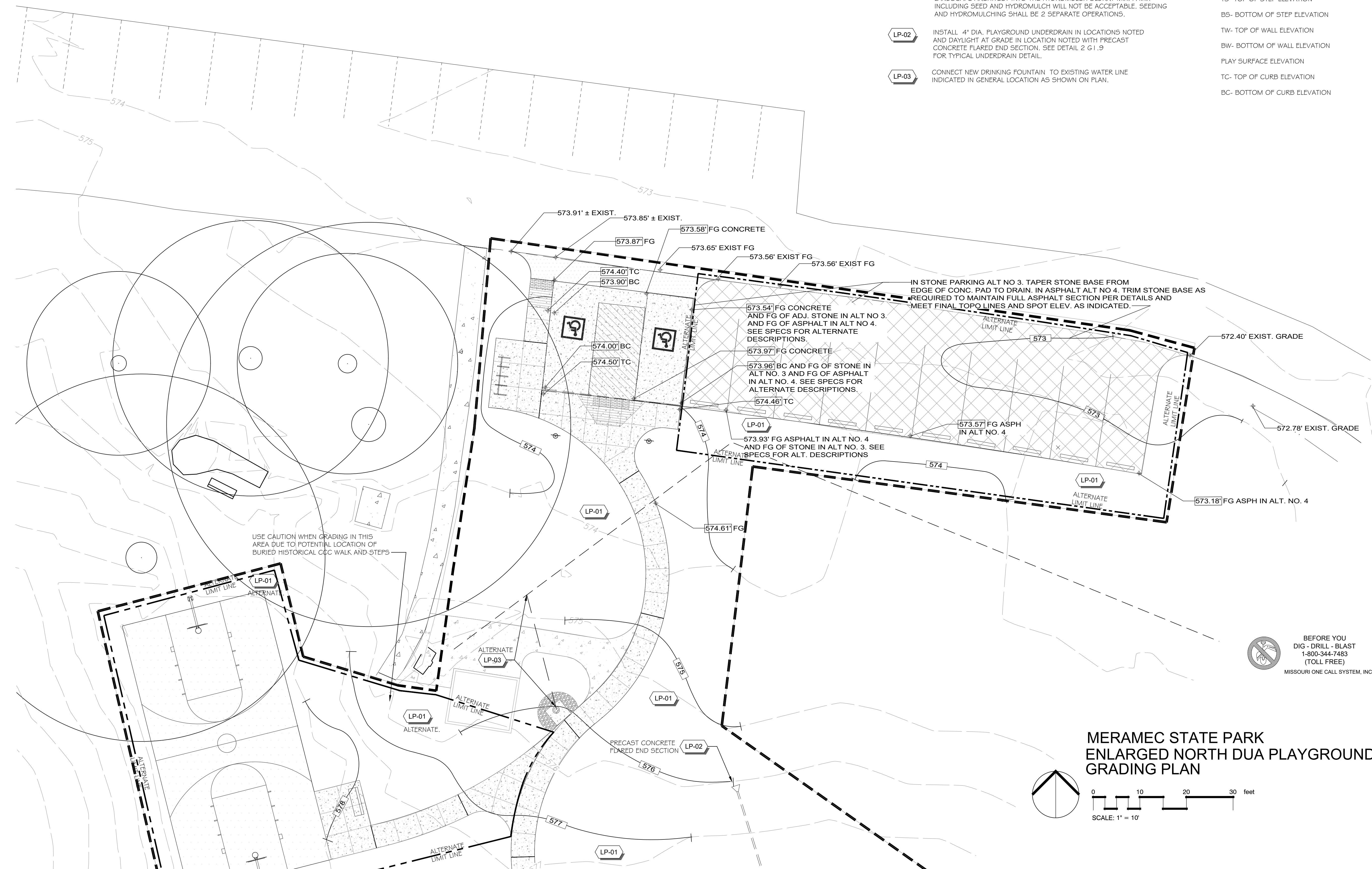


SYMBOL GRADING PLAN
DESCRIPTION

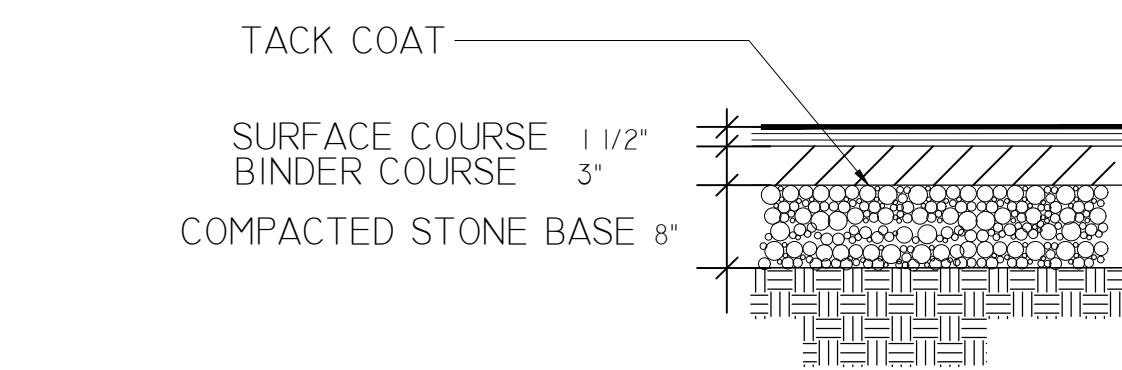
- LP-01** FINE GRADE, SEED, AND HYDROMULCH ALL DISTURBED AREAS NOT COVERED IN OTHER IMPROVEMENTS WITH LAWN SEED AS SUPPLIED BY THE STATE THAT IS A BLEND OF COMMERCIAL TURF GRASSES AT THE RATE OF 8 LBS. PER 1000 S.F. INCORPORATE A TACKIFIER AS APPROVED BY THE LANDSCAPE ARCHITECT INTO THE HYDROMULCH SLURRY MIX. A MIX INCLUDING SEED AND HYDROMULCH WILL NOT BE ACCEPTABLE. SEEDING AND HYDROMULCHING SHALL BE 2 SEPARATE OPERATIONS.
- LP-02** INSTALL 4" DIA. PLAYGROUND UNDERDRAIN IN LOCATIONS NOTED AND DAYLIGHT AT GRADE IN LOCATION NOTED WITH PRECAST CONCRETE FLARED END SECTION. SEE DETAIL 2 G1.9 FOR TYPICAL UNDERDRAIN DETAIL.
- LP-03** CONNECT NEW DRINKING FOUNTAIN TO EXISTING WATER LINE INDICATED IN GENERAL LOCATION AS SHOWN ON PLAN.

SPOT ELEVATION KEY

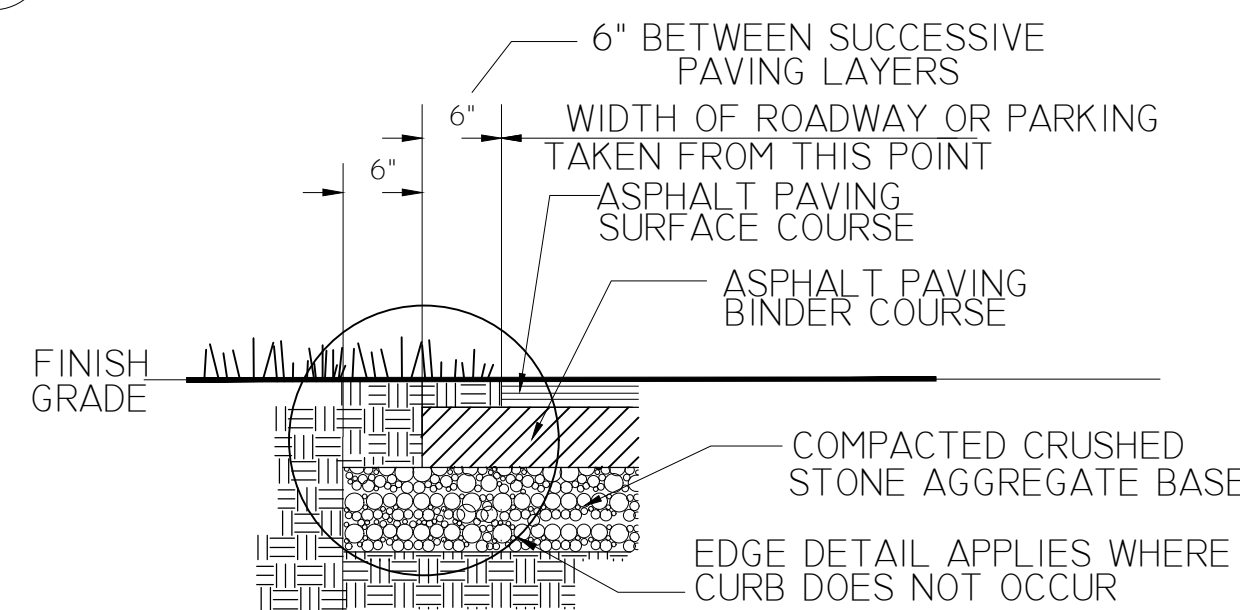
- FG- FINISH GRADE ELEVATION
- RIM- DRAINAGE SEWER RIM ELEVATION
- TS- TOP OF STEP ELEVATION
- BS- BOTTOM OF STEP ELEVATION
- TW- TOP OF WALL ELEVATION
- BW- BOTTOM OF WALL ELEVATION
- PLAY SURFACE ELEVATION
- TC- TOP OF CURB ELEVATION
- BC- BOTTOM OF CURB ELEVATION



**MERAMEC STATE PARK
ENLARGED NORTH DUA PLAYGROUND
GRADING PLAN**



1 ASPHALT PAVING
NTS



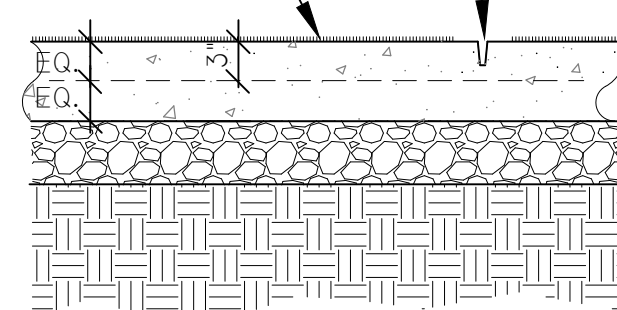
2 ASPHALT PAVING EDGE
NTS

CONCRETE: 4000 PSI MIN. AIR-ENTRAINED W/ LIGHT BROOM FINISH.

6" CONC. SLAB W 6/6-W4.0 X 4.0 WWF REINFORCEMENT AND LIGHT BROOM FINISH. CONTROL JOINTS AS SHOWN ON PLANS OR 10' O.C. MAX. AND EXP. JTS. AS SHOWN ON PLAN OR MAX 40' O.C. . SEE DETAILS

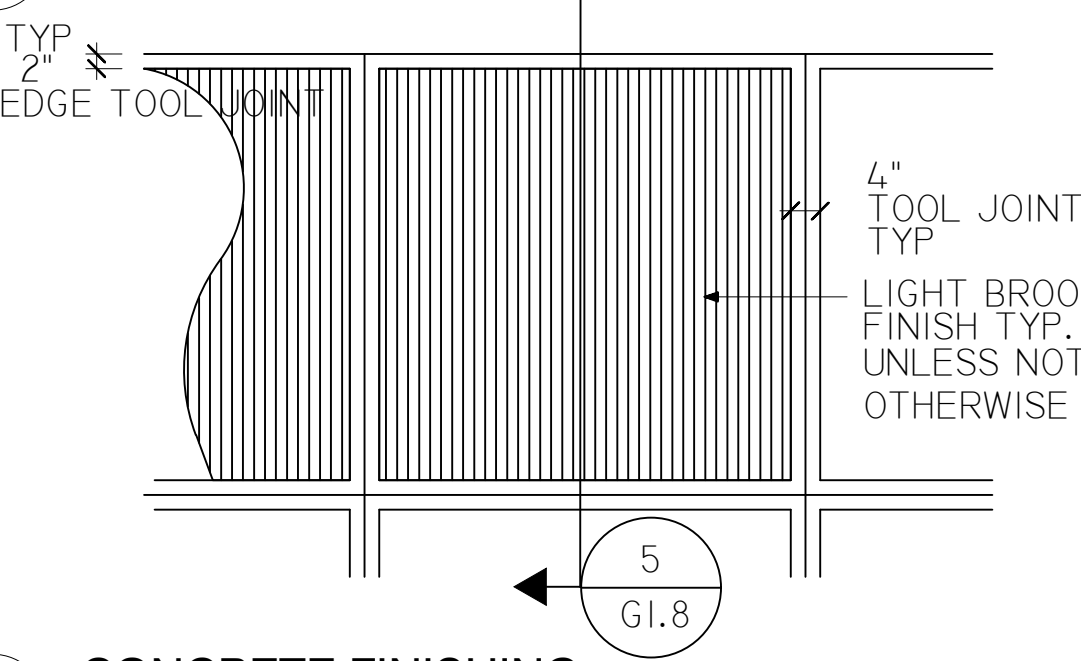
TOOLED CONTROL JTS. 1/4" WIDE AND 1/4 OF SLAB DEPTH. SEE 5/G1.8

APPLIED ANTI SPALLING COMPOUND



NOTE: CONTROL JTS. & EXPANSION JTS. SPACING MAY VARY. THE DIMENSIONS ABOVE ARE MAXIMUM. SEE PLANS FOR ANY VARIATIONS EITHER INDICATED OR IMPLIED.

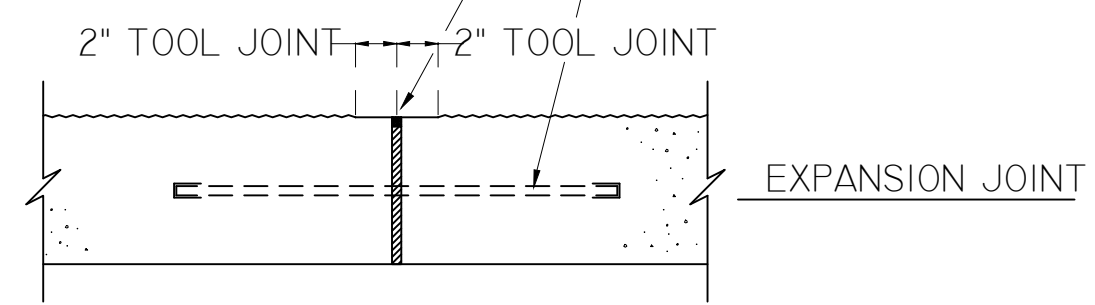
3 CONCRETE PAVING
NTS



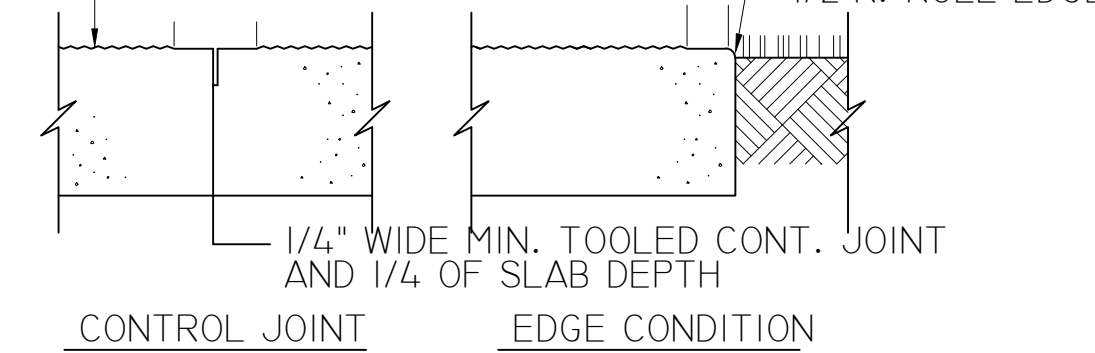
4 CONCRETE FINISHING
NTS

EXPANSION JOINT SEALANT W/ 1/2" POLYETHYLENE EXPANSION JOINT MATERIAL: COLOR TO MATCH PAVEMENT

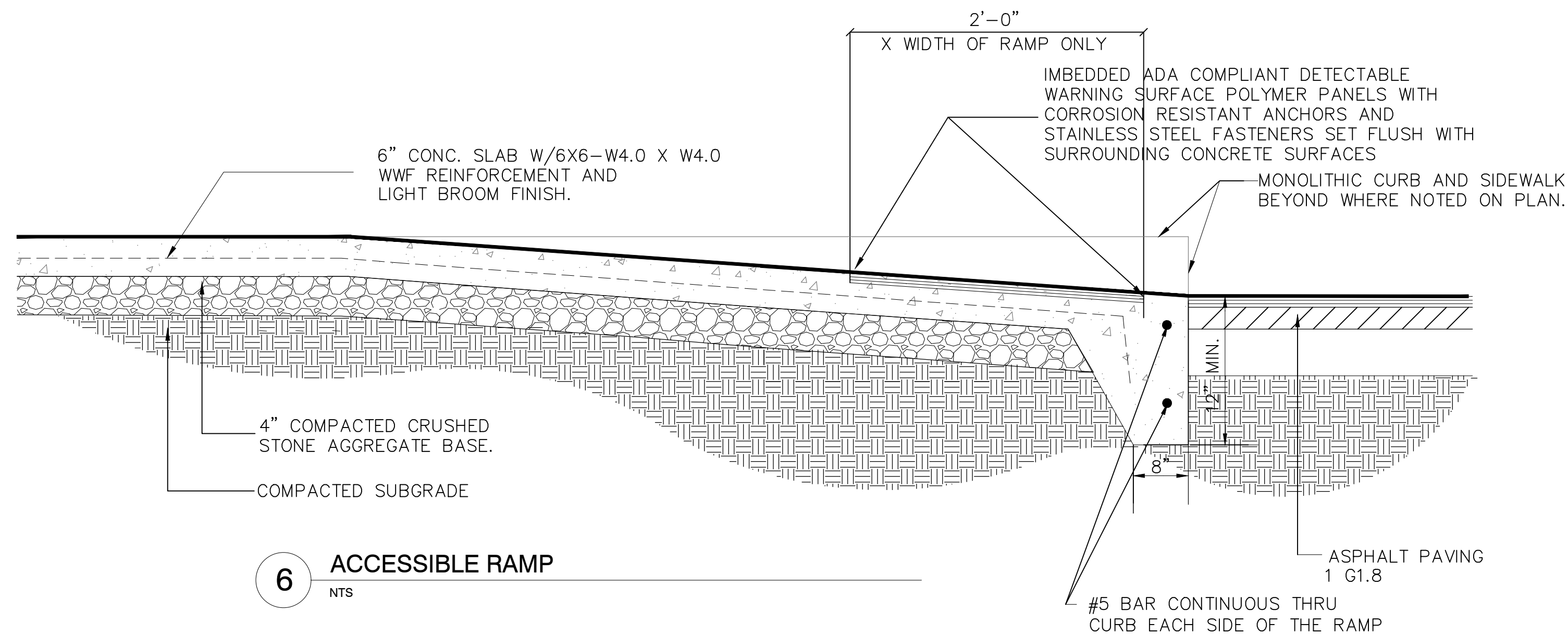
24"x1/2" DIA. SMOOTH BAR @18"O.C. GREASE AND DOWELL CAP W/BARSTOP @ BOTH ENDS



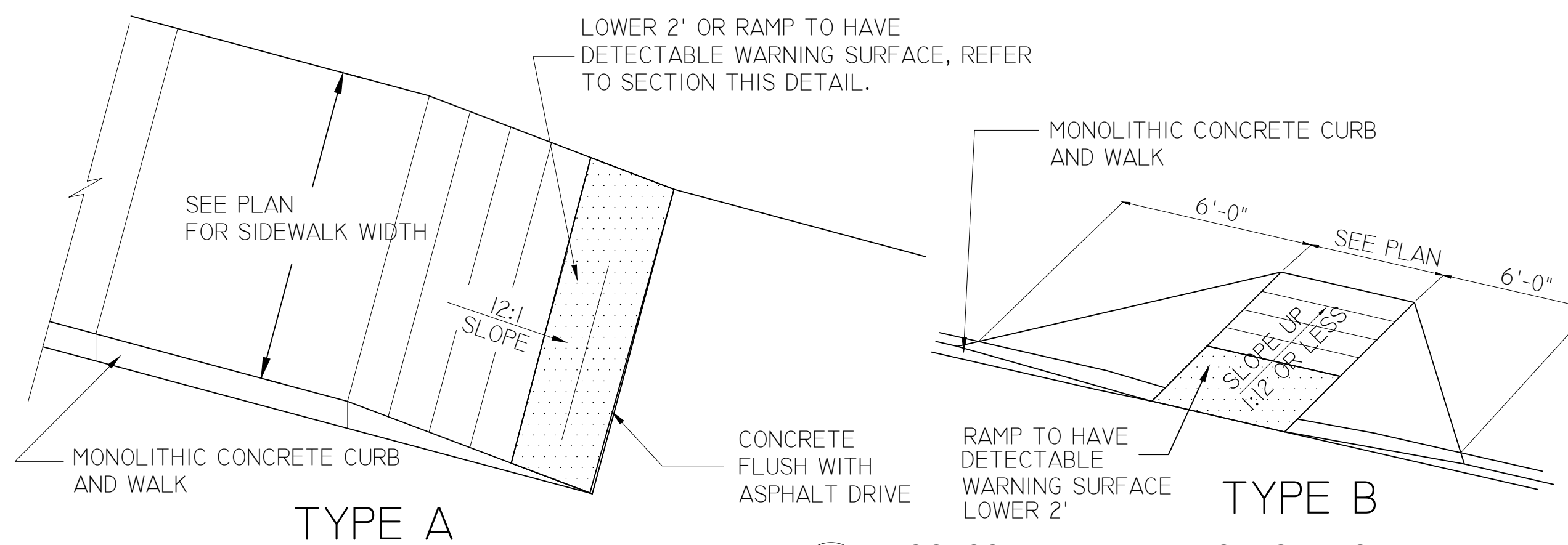
LIGHT BROOM FINISH TYPICAL UNLESS NOTED OTHERWISE



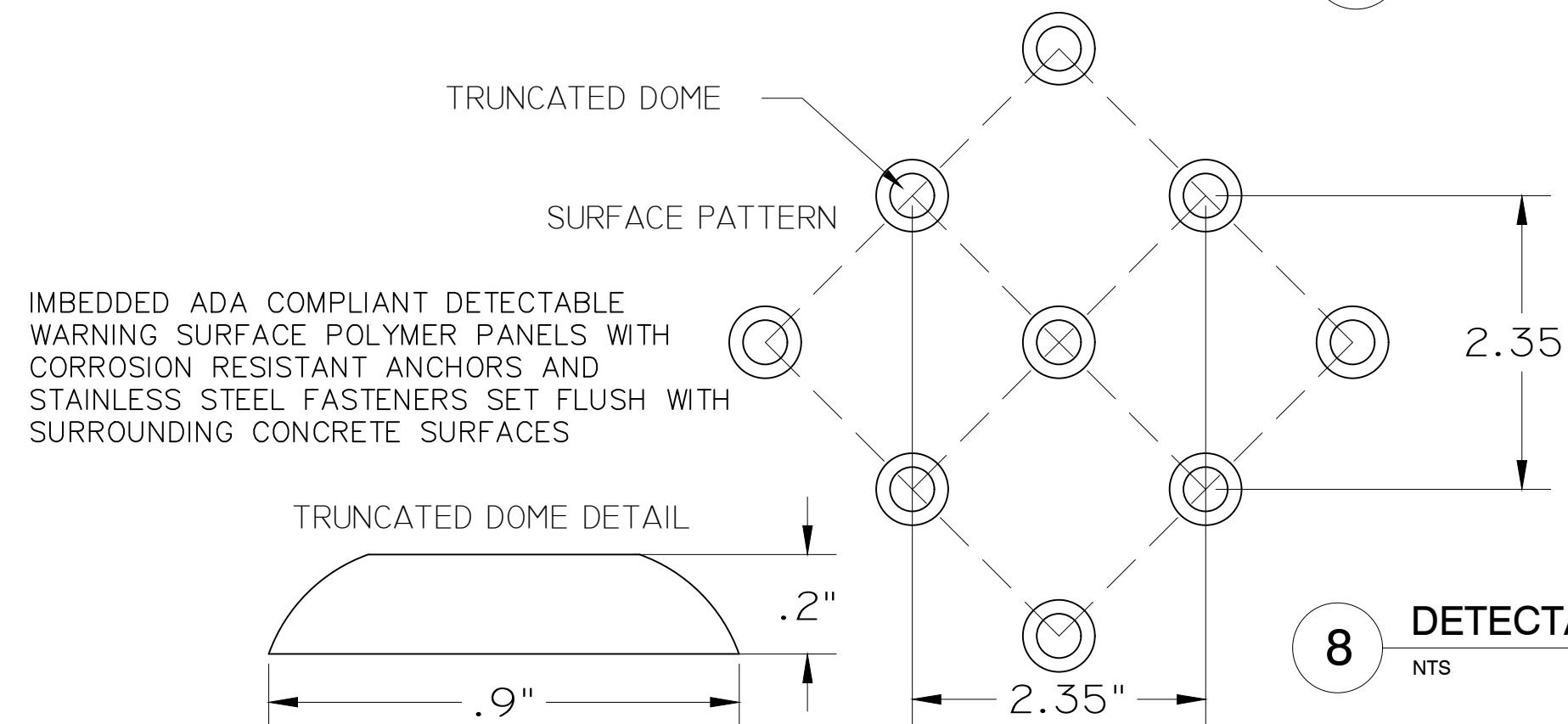
5 CONCRETE JOINTS
NTS



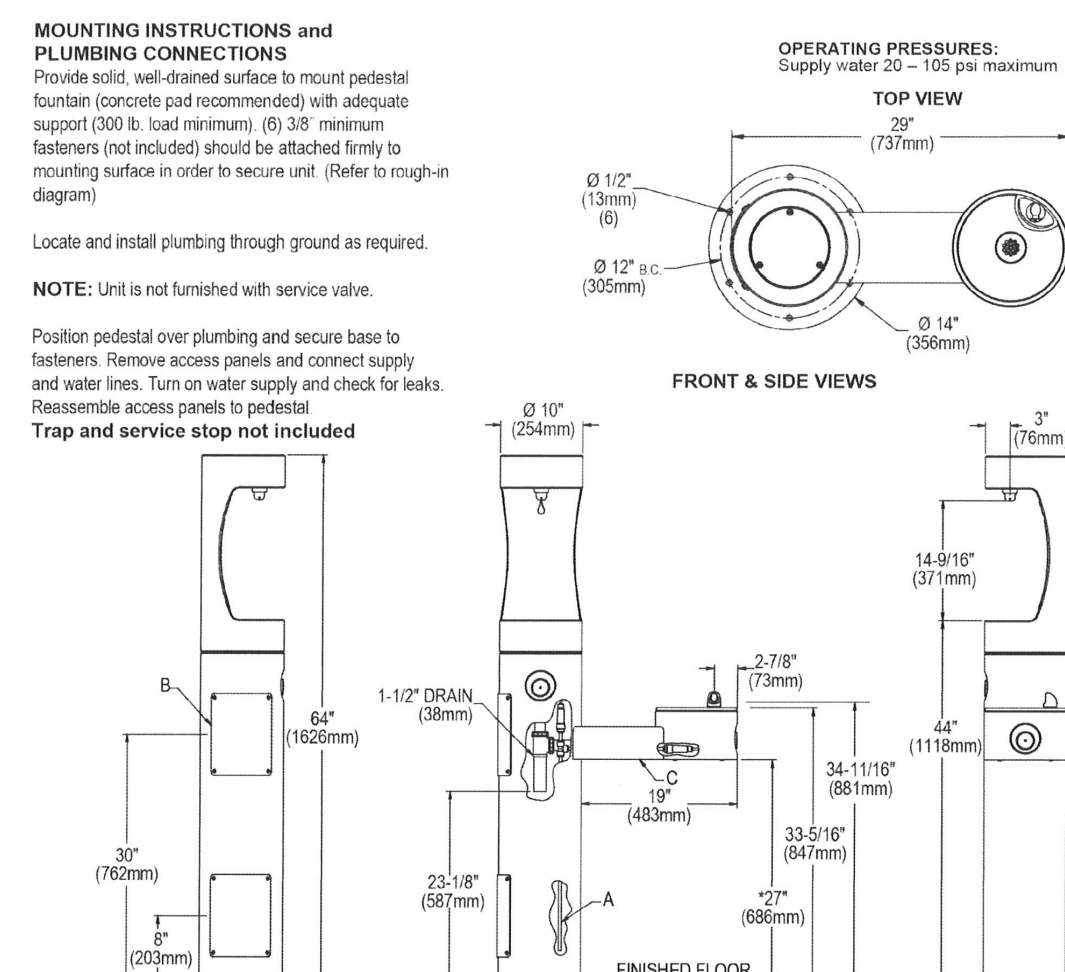
6 ACCESSIBLE RAMP
NTS



7 ACCESSIBLE RAMP PERSPECTIVES
NTS

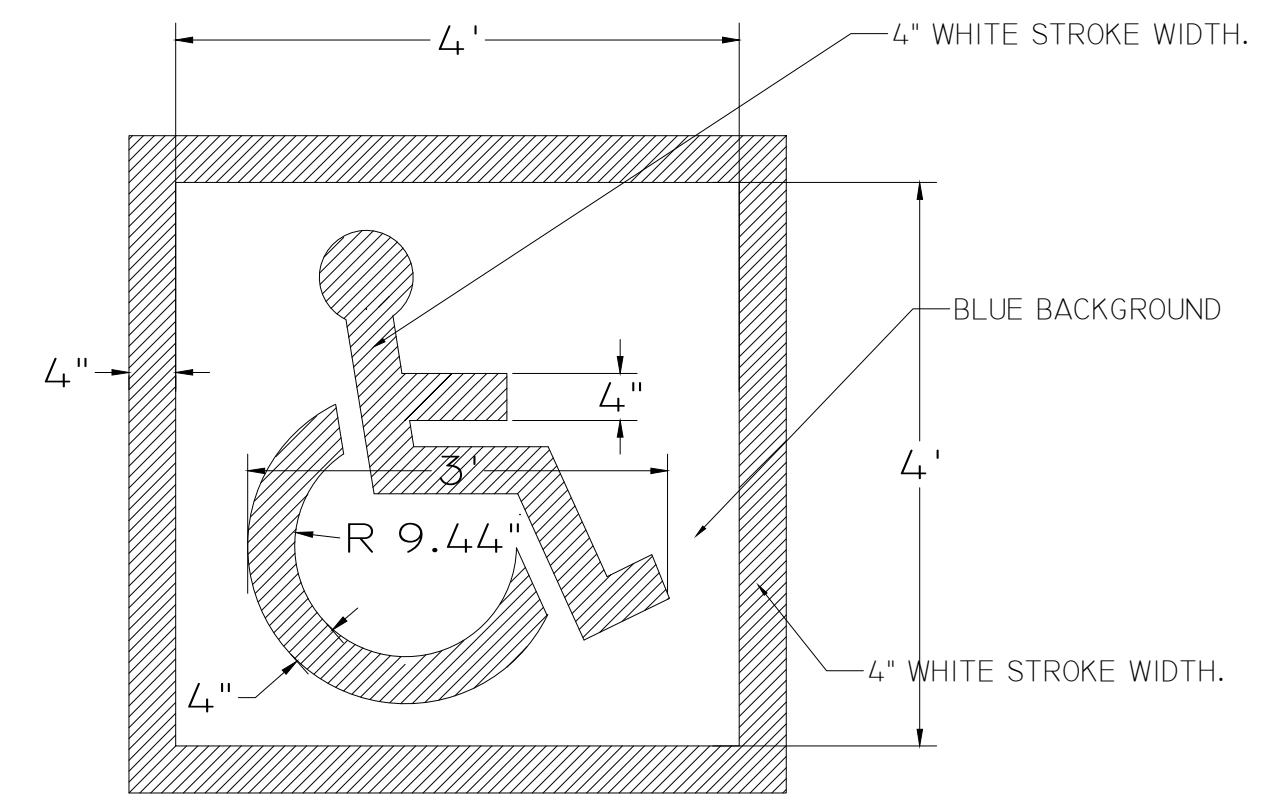


8 DETECTABLE SURFACE
NTS

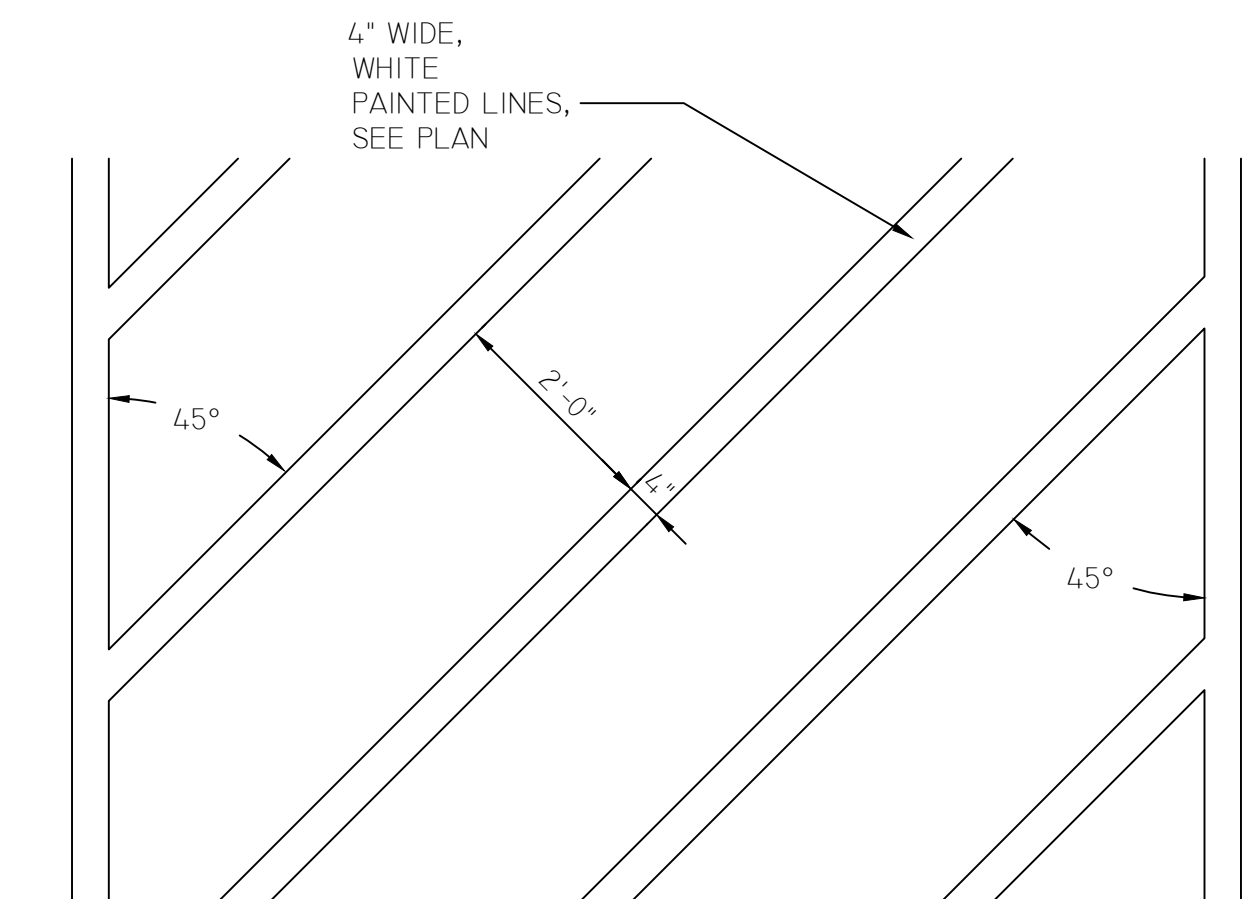


9 FREEZE PROOF DRINKING FOUNTAIN
NTS

ELKAY MODEL #LK4420BFUFRKEVG-FREEZE PROOF DRINKING FOUNTAIN IN EVERGREEN COLOR

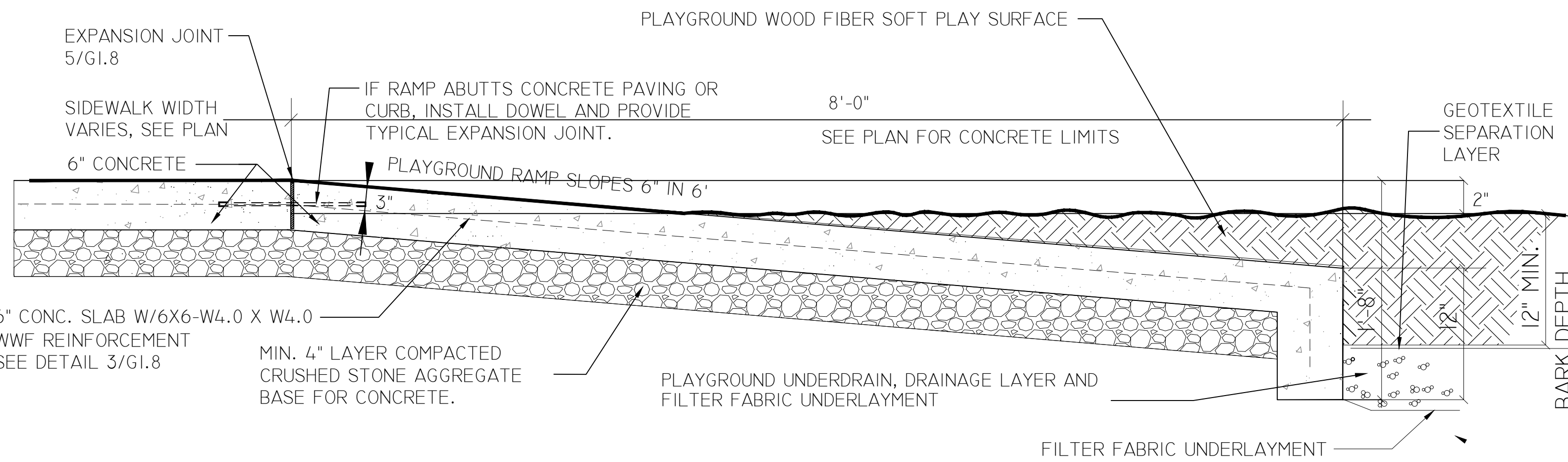


10 ACCESSIBLE PAVEMENT PARKING SYMBOL
NTS

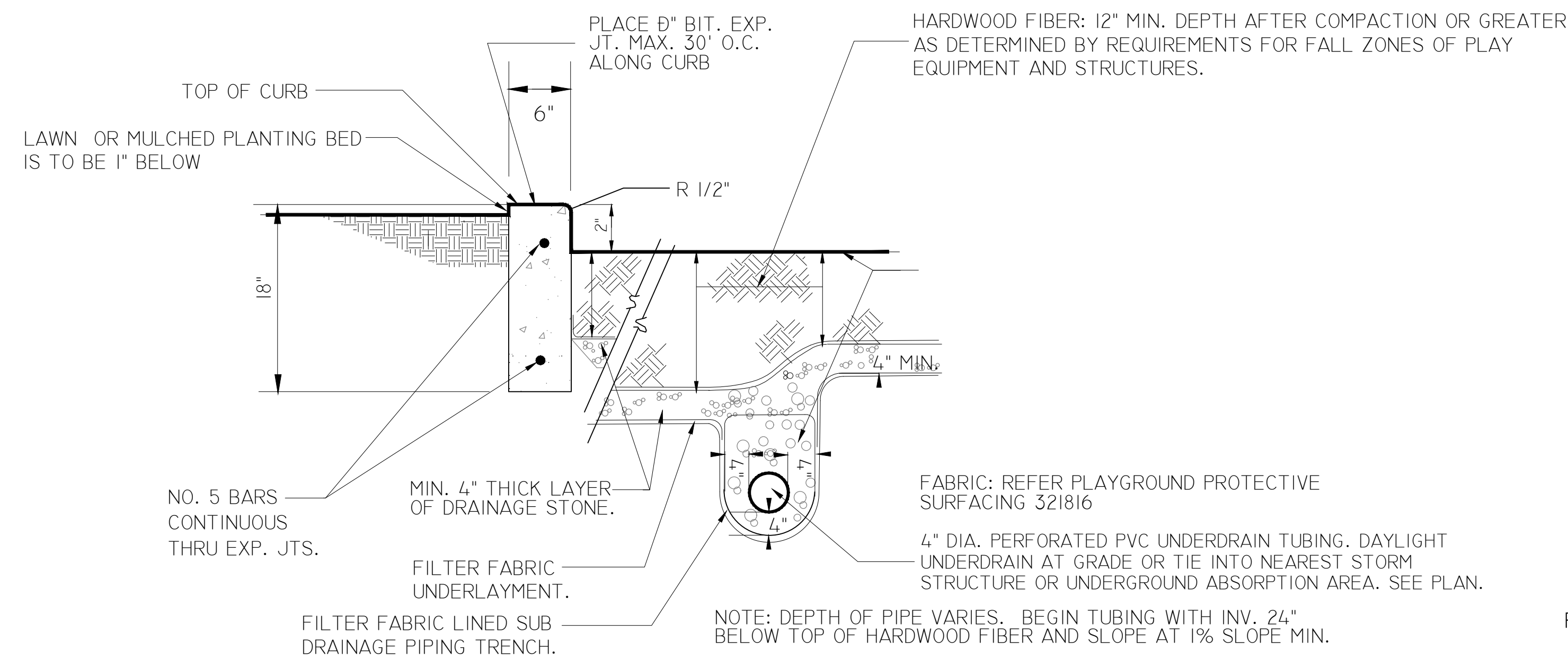


11 ACCESSIBLE CROSSING MARKINGS
NTS

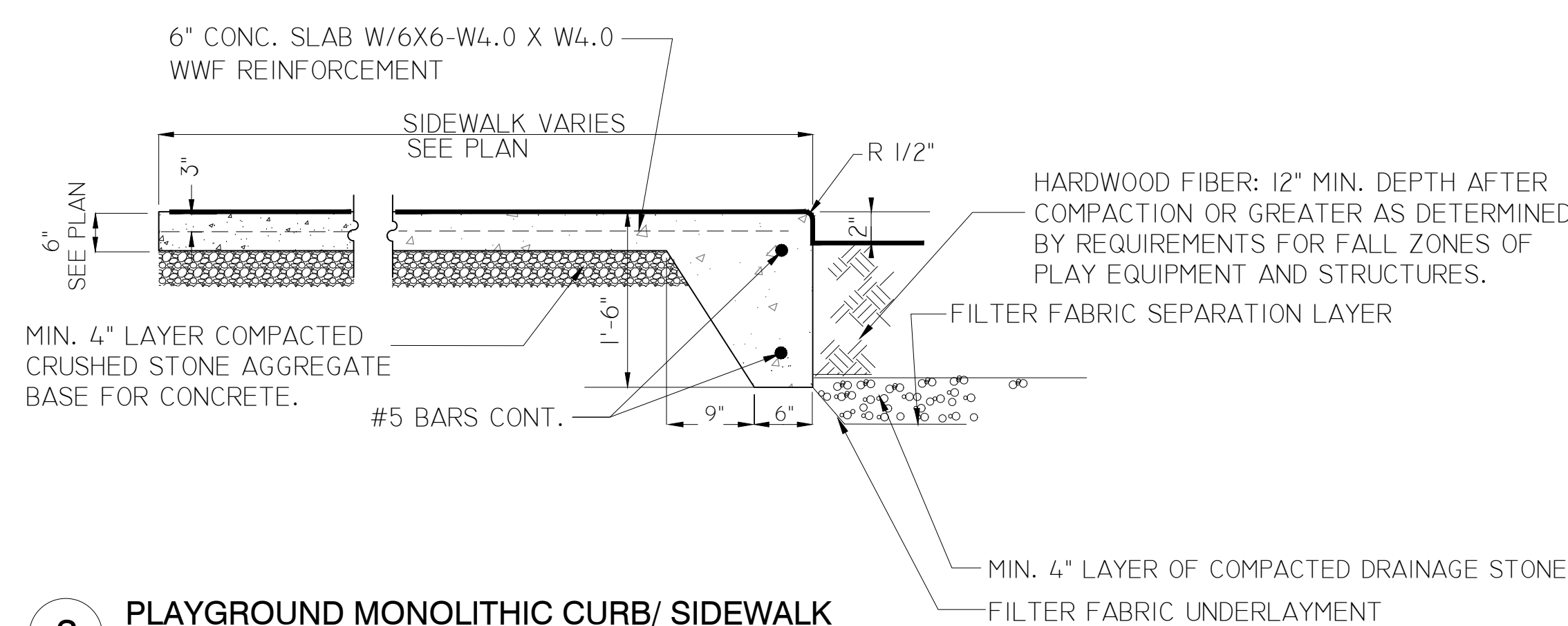
A = 3/8" O.D. Unplated copper tube connect. Shut off valve by others.
B = Access panel @ 10"
C = Removable bottom cover.



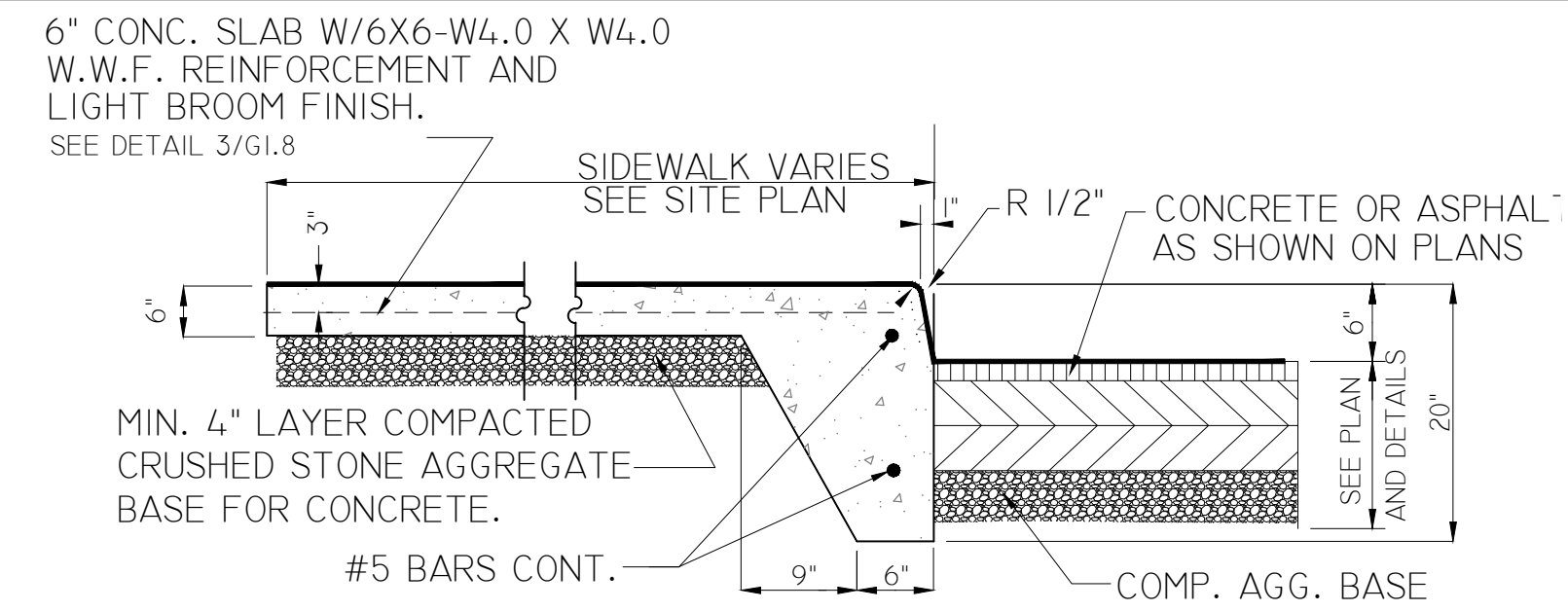
1 PLAYGROUND ACCESSIBLE RAMP
NTS



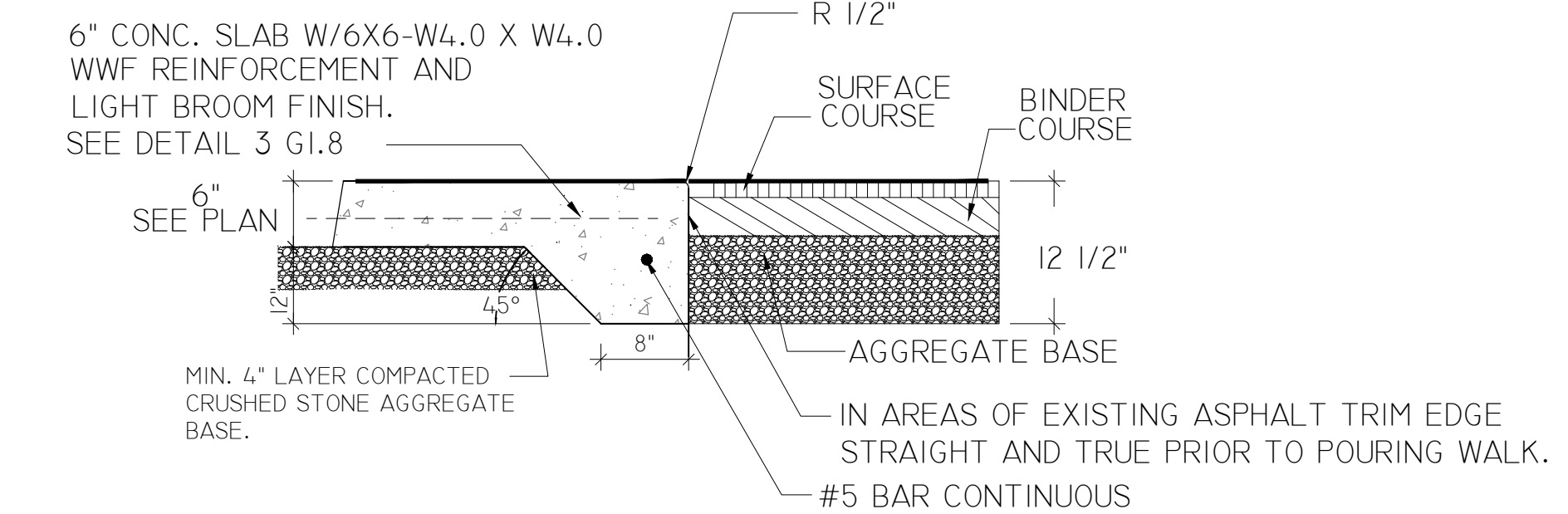
2 PLAYGROUND CONTAINMENT CURB
NTS



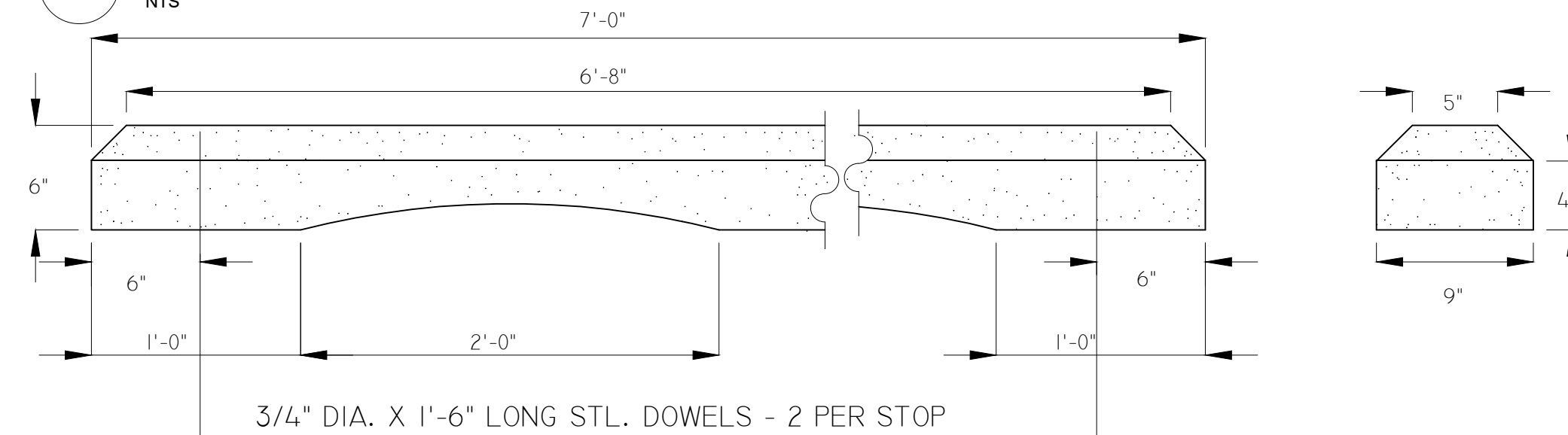
3 PLAYGROUND MONOLITHIC CURB/ SIDEWALK
NTS



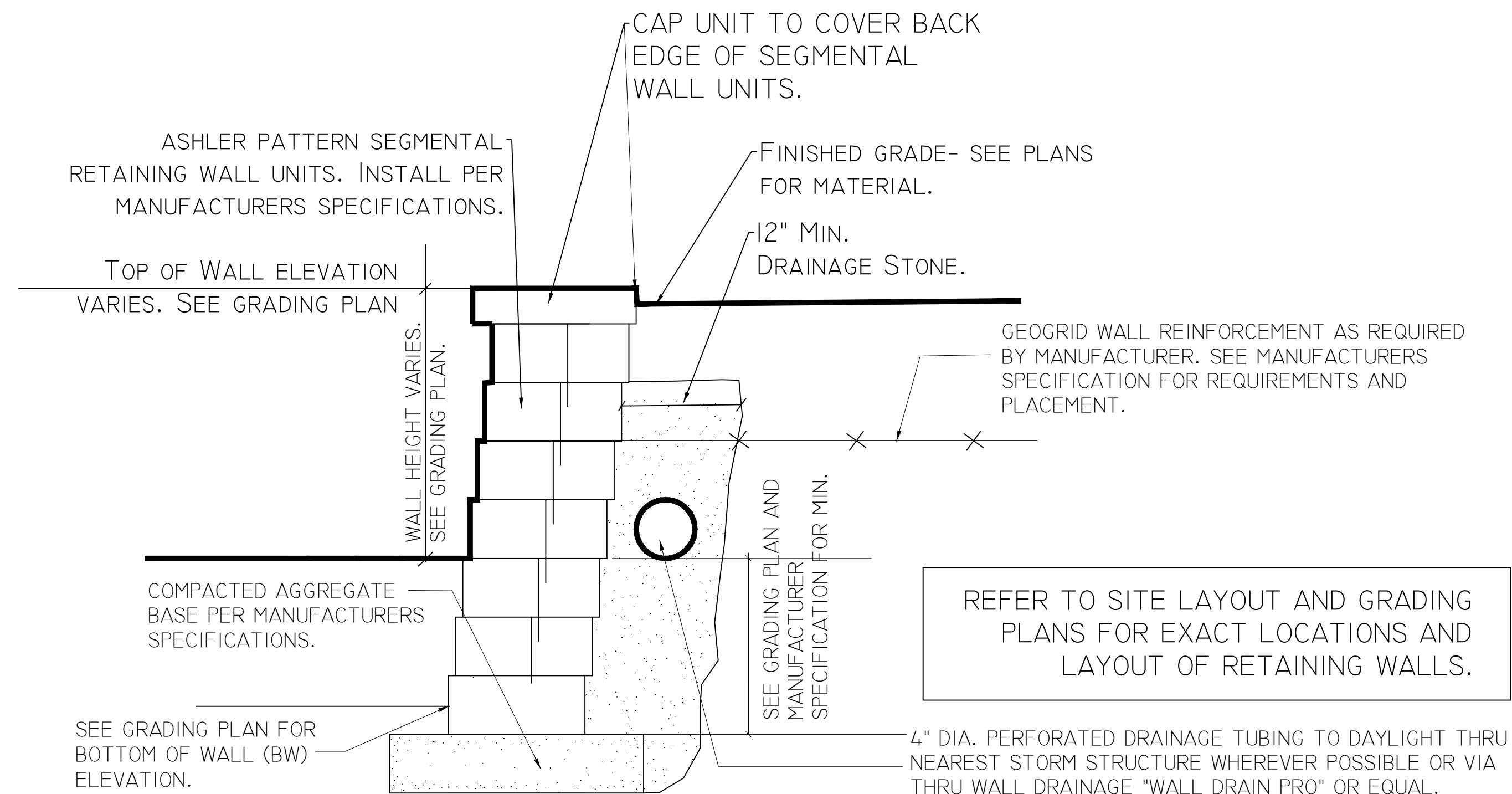
4 MONOLITHIC CURB/ SIDEWALK
NTS



5 CONCRETE SLAB AT PAVING
NTS



6 CONCRETE BUMPER BLOCKS (BY OWNER)
NTS



7 SEGMENTAL RETAINING WALL
NTS

REFER TO SITE LAYOUT AND GRADING PLANS FOR EXACT LOCATIONS AND LAYOUT OF RETAINING WALLS.