

TREE PROTECTION NOTES:

1. TREE PROTECTION ZONES SHALL BE ESTABLISHED AT OR OUTSIDE THE CRITICAL ROOT ZONE OF TREES TO BE PROTECTED PRIOR TO INITIATING CONSTRUCTION ACTIVITIES.
2. STORAGE OF CONSTRUCTION MATERIALS, DEBRIS, DUMPING OF TRASH OR EXCAVATED MATERIALS SHALL BE PROHIBITED WITHIN THE TREE PROTECTION ZONE. CONTRACTOR SHALL MAINTAIN AREA WITHIN THE TREE PROTECTION ZONE FOR THE DURATION OF THE PROJECT.
3. PARKING OR MOVING CONSTRUCTION EQUIPMENT WITHIN THE TREE PROTECTION ZONE SHALL BE PROHIBITED. DO NOT DIRECT VEHICLE OR EQUIPMENT EXHAUST TOWARDS PROTECTION ZONE.
4. HEAT SOURCE, FLAMES, IGNITION SOURCES, AND SMOKING SHALL BE PROHIBITED WITHIN TREE PROTECTIONS ZONES.
5. EXCAVATION OR OTHER DIGGING UNLESS SHOWN ON PLANS SHALL BE PROHIBITED WITHIN TREE PROTECTION ZONES.
6. NO SIGNS OR WRAPPINGS AROUND PROTECTED PLANT MATERIALS SHALL BE ALLOWED UNLESS SHOWN ON PLANS.
7. PROTECT TREES FROM SPILLAGE, PONDAGE AND EROSION.
8. TRENCHING, IF REQUIRED IN THE ROOT ZONE SHALL BE EXCAVATED BY HAND, WITH AIRSPADE OR TUNNELED UNDER ROOTS BY DRILLING, AUGER BORING, OR PIPE JACKING. PROTECT EXPOSED ROOTS FROM DRYING OUT PRIOR PERMANENT BACKFILL. PRUNE SMALLER ROOTS AS NECESSARY.
9. PRUNING OF ROOTS SHALL BE PERFORMED PRUNING INSTRUMENTS WITH 90-DEGREE CUTS. USE OF BACKHOES AND OTHER EQUIPMENT THAT TEARS, RIPS OR PULLS FOR ROOT PRUNING IS PROHIBITED. ROOTS SHALL BE PROTECTED DURING PRUNING OPERATIONS WITH WET BURLAP.
10. MULCH INSIDE TREE PROTECTION ZONES WITH SHREDDED HARDWOOD MULCH TO A DEPTH OF 2". DO NOT PLACE MULCH WITHIN 6" OF TREE TRUNK.
11. TREE PROTECTION ZONE FENCING SHALL BE CONSTRUCTED OF HIGH-DENSITY PLASTIC AND STRETCHED POLYETHYLENE FABRIC WITH 2" MAXIMUM OPENING, COLOR, HIGH VISIBILITY ORANGE. FENCE SHALL BE A MINIMUM OF 48" TALL AND SECURED IN PLACE WITH TUBULAR OR T-SHAPED GALVANIZED POSTS AT NO MORE THAN 96" ON CENTER. THE CONTRACTOR SHALL MAINTAIN TREE PROTECTION ZONE FENCING FOR THE DURATION OF THE PROJECT.
12. CONTRACTOR SHALL INCLUDE SIGNAGE AT TREE PROTECTION ZONE. SIGNS SHALL BE SHOP FABRICATED FROM PLASTIC OR METAL WITH PRE-PUNCHED AND REINFORCED ATTACHMENT HOLES. TEXT SHALL BE LEGIBLE AND NONFADING.
13. CROWN PRUNING, IF NECESSARY, SHALL BE PERFORMED BY A LICENSED ARBORIST.
14. PROTECT GRADES WITHIN TREE PROTECTION ZONE. IF MINOR CUT OR FILL IS REQUIRED WITHIN THE TREE PROTECTION ZONE, WORK SHALL BE PERFORMED BY HAND AND NOT EXCEED 2" IN GRADE CHANGE. TRANSITIONS BETWEEN TREE PROTECTION ZONES GRADES AN PROPOSE GRADES OUTSIDE THE TREE PROTECTION ZONES SHALL BE GRADED SMOOTH AND NOT EXCEED 3:1 UNLESS OTHERWISE NOTED ON PLANS.

SURCHARGE FILL GRADING NOTES:

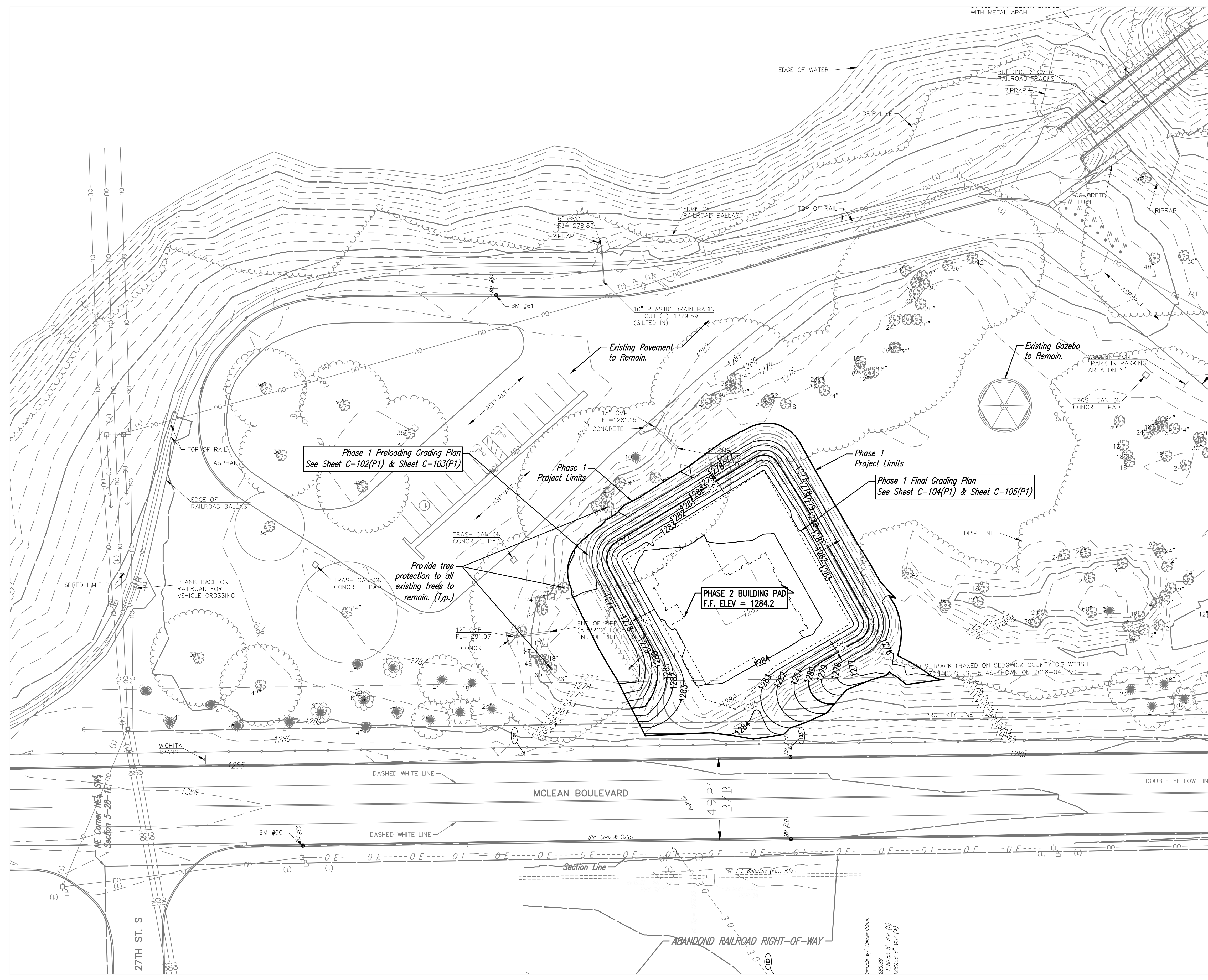
1. CONTRACTOR SHALL MEET ALL REQUIREMENTS AS NOTED IN THE GEOTECHNICAL ENGINEERING REPORT, PROJECT NUMBER 1195039, DATED APRIL 1, 2019 AS PREPARED BY TERRACON CONSULTANTS, INC. FOR EARTHWORK, INCLUDING PREPARATION, MOISTURE AND COMPACTION REQUIREMENTS, AND ALL OTHER REQUIREMENTS FOR ENGINEERED FILL.  
  
FOR PROJECT SEQUENCING FOR BUILDING PAD/ SURCHARGE FILL REFER TO GEOTECHNICAL ENGINEERING REPORT, PROJECT NUMBER 1195039, DATED APRIL 1, 2019 AS PREPARED BY TERRACON CONSULTANTS INC.
2. ALL EARTHWORK OPERATIONS, INCLUDING BUT NOT LIMITED TO, CLEARING, GRUBBING, EXCAVATIONS SHALL BE PERFORMED PER THE REQUIREMENTS OF THE GEOTECHNICAL REPORT.
3. THE CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE ALL FILL MATERIALS (EXCEPT WHERE INDICATED TO BE OWNER FURNISHED IN SPEC SECTION 31 00 00) MEETING THE REQUIREMENTS OF THE GEOTECHNICAL REPORT FOR ENGINEERING FILL AND PRE-LOADING MATERIALS. THE CONTRACTOR SHALL COORDINATE WITH THE FIELD GEOTECHNICAL ENGINEER, TO BE SELECTED BY THE CITY OF WICHITA, FOR TESTING ALL MATERIALS TO ENSURE COMPLIANCE WITH ALL REQUIREMENTS AS LISTED IN THE GEOTECHNICAL REPORT.
4. THE CONTRACTOR SHALL COORDINATE WITH GEOTECHNICAL ENGINEER, TO BE SELECTED BY THE CITY OF WICHITA, INC. OVERSEEING THE INSTALLATION OF THE SURVEY MONUMENTS AND SURCHARGE FILL, AND MONITORING OF COMPACTION LEVELS OF THE PERMANENT FILL PER THE MONITORING SCHEDULE CONTAINED WITHIN THE GEOTECHNICAL REPORT.
5. THE CONTRACTOR SHALL COORDINATE WITH SURVEYOR EMPLOYED BY OWNER TO LOCATE AND SURVEY COMPACTION MONITORING MONUMENTS.
6. AFTER THE COMPACTION LEVELS REQUIRED BY THE GEOTECHNICAL REPORT HAVE BEEN ACHIEVED, THE CONTRACTOR SHALL COORDINATE WITH THE FIELD GEOTECHNICAL ENGINEER, TO BE SELECTED BY THE CITY OF WICHITA, THE TEST AND SIGN OFF ON THE COMPACTION LEVELS PRIOR TO REMOVING SURCHARGE FILL.
7. UPON APPROVAL OF COMPACTION LEVELS REQUIRED BY THE GEOTECHNICAL REPORT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING PRELOADING MATERIALS AS REQUIRED TO PROVIDE FINISHED GRADES. THE PAD SHALL BE RETESTED BY OWNER'S GEOTECHNICAL ENGINEER AFTER FINAL GRADING IF APPROVED, WORK MAY COMMENCE..
8. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE FIELD GEOTECHNICAL ENGINEER, TO BE SELECTED BY THE CITY OF WICHITA, FOR ALL OBSERVATION AND MONITORING ACTIVITIES REQUIRED BY THE GEOTECHNICAL REPORT THROUGH THE ENTIRE CONSTRUCTION PROCESS TO FINAL COMPLETION.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING OF ALL EXCESS MATERIAL UPON COMPLETION OF FINAL GRADING. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES INCLUDING ANY TREES REMOVED, TREE TRIMMINGS, AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES PROVIDED BY THE CONTRACTOR. THESE SITES SHALL ALSO BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE, AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WILL REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS MAY REQUIRE ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED DISPOSAL LOCATION.
10. THE CONTRACTOR SHALL NOT GRADE OUTSIDE PROJECT LIMITS WITHOUT PRIOR APPROVAL FROM CITY.
11. SEE SHEET C-101(P1) FOR GENERAL NOTES PERTAINING TO GRADING OPERATIONS.

**SITE SEQUENCING AND NOTES**

NTS

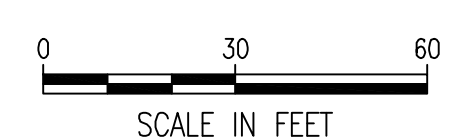


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REFER TO GEOTECHNICAL ENGINEERING REPORT,  
 PERFORMED BY TERRACON CONSULTANTS,  
 PROJECT NUMBER 1195039, DATED APRIL 1,  
 2019 FOR REQUIREMENTS OF FILL FOR  
 PRELOADING THE FUTURE BUILDING PAD.

**PHASE 1 SITE PLAN AND GENERAL NOTES**



**GENERAL NOTES**

1. AT LEAST 72 HOURS PRIOR TO BEGINNING EXCAVATION (EXCLUDING WEEKENDS AND HOLIDAYS), THE CONTRACTOR SHALL CONTACT THE KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT (620) DIG-SAFE (1-800-344-7233) TO REQUEST THE LOCAL UTILITY COMPANIES MARK ANY EXISTING LINES WITHIN THE PROJECT AREA.
2. THE CONTRACTOR SHALL PROVIDE TO OWNER, ONE SET OF PLANS MARKED IN RED INK INDICATING ALL CHANGES MADE TO THE PROJECT INCLUDING ACTUAL LOCATIONS OF BURIED UTILITIES. ALL RECORD INFORMATION SHALL BE BASED ON PLAN CONTROL POINTS.
4. THE CONTRACTOR SHALL SUBMIT HIS ANTICIPATED "SEQUENCE OF CONSTRUCTION" PLAN PRIOR TO THE START OF CONSTRUCTION.
5. THE CONTRACTOR SHALL CONTAIN HIS OPERATIONS TO PROJECT SITE. THE CONTRACTOR SHALL ERECT WARNING SIGNS, FLASHING LIGHTS, AND BARRICADES IN COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES TO ENSURE SAFETY.
6. EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION WAS OBTAINED FROM RECORD DRAWINGS OR FIELD LOCATION. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED. THE CONTRACTOR SHALL PROTECT ALL EXISTING UNDERGROUND UTILITIES, SHOWN ON THE PLANS OR DISCOVERED DURING THE COURSE OF THE WORK. THE CONTRACTOR SHOULD EXERCISE EXTREME CAUTION IN MAKING EXCAVATIONS FOR STRUCTURES AND PIPELINES.
7. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL BENCH MARKS, REFERENCE POINTS AND STAKES.
8. SHEETING AND SHORING. EXCEPT WHERE BANKS ARE CUT BACK ON A STABLE SLOPE, EXCAVATION FOR STRUCTURES AND TRENCHES SHALL BE PROPERLY AND SUBSTANTIALLY SHEETED, BRACED, AND SHORED, AS REQUIRED AND IN COMPLIANCE WITH ALL CURRENT OSHA REGULATIONS.
9. THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY CONSTRUCTION TO THEIR ORIGINAL CONDITION, UNLESS OTHERWISE NOTED ON THE PLANS.
10. POSITIVE DRAINAGE SHALL BE PROVIDED FOR ALL AREAS ON OR NEAR SPOIL AREAS. NATURAL DRAINAGE WAYS SHALL BE MAINTAINED.
11. THE CONTRACTOR SHALL SEED ALL AREAS DISTURBED DURING CONSTRUCTION. MATERIALS FOR SEEDING SHALL BE AS LISTED BELOW:  
 GRASS SEED - BROME GRASS SEED SHALL BE PLANTED AT A MINIMUM RATE OF 20 LBS. PLS (PURE LIVE SEED) PER ACRE.  
 SEASONAL INFO:  
 FALL AUG. 15-SEP. 20  
 WINTER DEC. 1-FEB. 15  
 SPRING FEB. 15-APR. 1  
 FERTILIZER - FERTILIZER SHALL CONTAIN A MINIMUM OF 12% NITROGEN, 24% PHOSPHORUS, AND 12% POTASSIUM. FERTILIZER SHALL BE DISTRIBUTED AT A MINIMUM RATE OF 200 LBS PER ACRE.  
 MULCH - MULCH SHALL BE APPLIED TO ALL AREAS WITH SLOPES GREATER THAN 3 TO 1. APPLY MULCHING AT THE RATE OF 2 TONS PER ACRE. MULCH TYPE SHALL BE PRAIRIE HAY.  
 PRIOR TO SEEDING, THE CONTRACTOR SHALL INSTALL OR VERIFY THAT A MIN. 8" TOPSOIL EXISTS.
12. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL RE-ESTABLISH CONTROL POINTS AND BENCHMARKS TO VERIFY THEIR ACCURACY.
15. EARTHWORK SHALL MEET REQUIREMENTS OF THE GEOTECHNICAL REPORT.
16. THE CONTRACTOR SHALL EXPOSE AND VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF EXISTING UTILITIES THAT ARE WITHIN THE LIMITS OF CONSTRUCTION. THE UTILITY LOCATES SHALL BE PERFORMED PRIOR TO THE START OF CONSTRUCTION AND ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
17. THE SITE SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AS INDICATED ON THE GRADING PLAN. UNDER NO CIRCUMSTANCES WILL PONDING BE ALLOWED. THE CONTRACTOR SHALL REPORT ANY GRADING DISCREPANCIES TO THE ENGINEER FOR RESOLUTION PRIOR TO CONSTRUCTION.
18. THE CONTRACTOR SHALL OBTAIN ANY NECESSARY PERMITS PRIOR TO CONSTRUCTION.
19. CONTRACTOR SHALL USE EXTREME CAUTION DURING DEMOLITION TO PROTECT ALL UTILITIES, LANDSCAPING, TREES, ETC. WHICH ARE TO BE SAVED.
20. DEMOLISHED MATERIALS ARE TO BE REMOVED OFF SITE UNLESS OTHERWISE NOTED.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
22. THE EXISTING CONTOURS SHOWN REPRESENT THE BEST INFORMATION AVAILABLE FOR DESIGN. THE CONTRACTOR SHALL SATISFY THEMSELVES OF ACTUAL SITE CONDITIONS PRIOR TO BIDDING.
23. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL METHODS AS SPECIFIED ON THE EROSION CONTROL PLAN CONTAINED HEREIN. CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING AND IMPLEMENTING BEST MANAGEMENT PRACTICES FOR EROSION CONTROL TO MINIMIZE POLLUTANTS IN STORM WATER DISCHARGES AND TO CONFORM TO THE REQUIREMENTS OF EPA NPDES PERMIT FOR DISTURBED AREAS GREATER THAN 1 ACRE.

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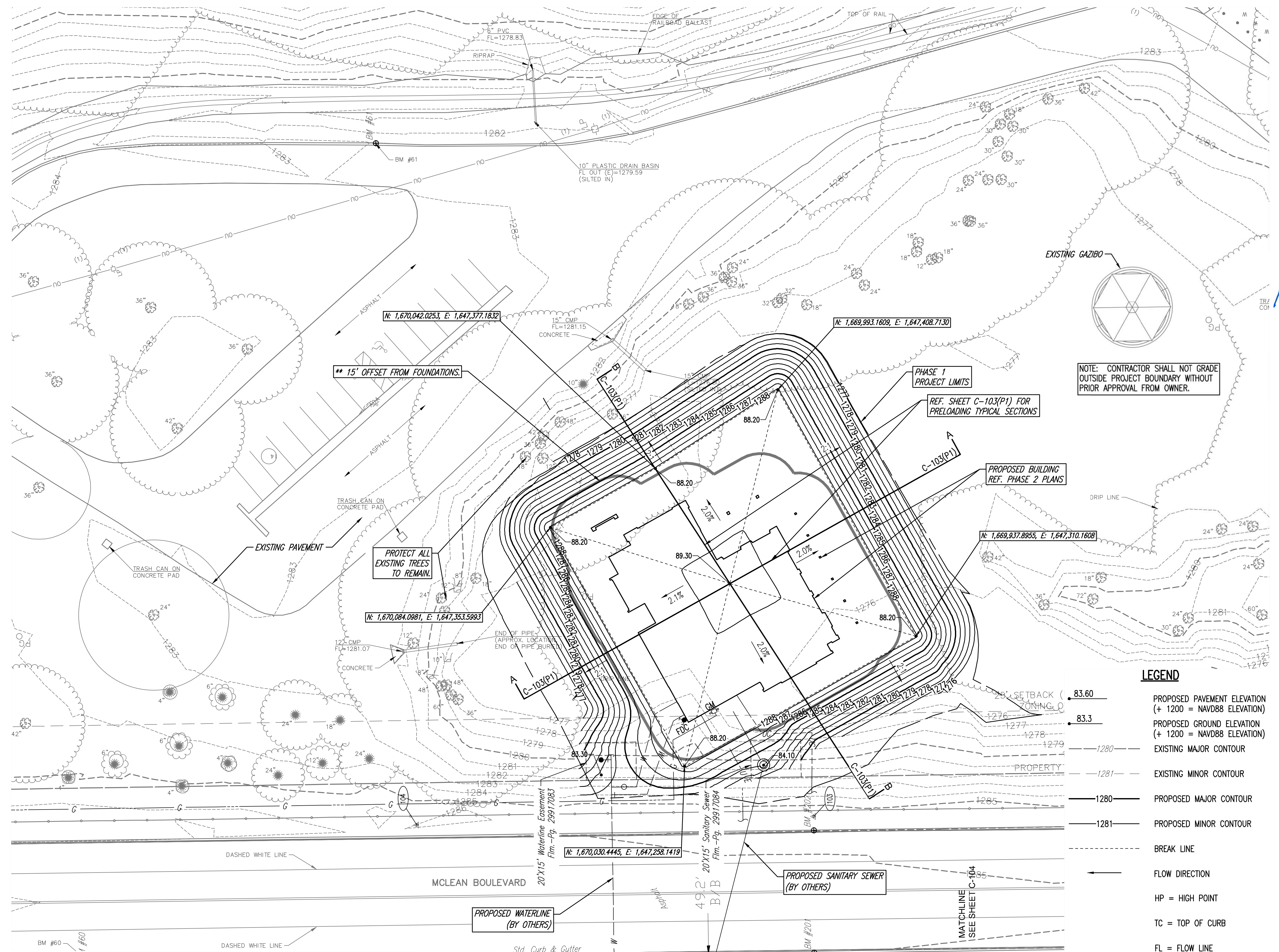
**WATSON PARK**  
**EVENT CENTER**  
 3022 S MCLEAN BLVD, WICHITA, KS 67217

CITY REVIEW COMMENTS FOR CONSTRUCTION

30 MARCH 20

C-101(P1)

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**LEGEND**

83.60	PROPOSED PAVEMENT ELEVATION (+ 1200 = NAVD88 ELEVATION)
83.3	PROPOSED GROUND ELEVATION (+ 1200 = NAVD88 ELEVATION)
1280	EXISTING MAJOR CONTOUR
1281	EXISTING MINOR CONTOUR
1280	PROPOSED MAJOR CONTOUR
1281	PROPOSED MINOR CONTOUR
---	BREAK LINE
→	FLOW DIRECTION
HP	HP = HIGH POINT
TC	TC = TOP OF CURB
FL	FL = FLOW LINE
BW	BW = BOTTOM OF WALL AT BRIDGE ABUTMENT
ME	ME = MATCH EXISTING CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.

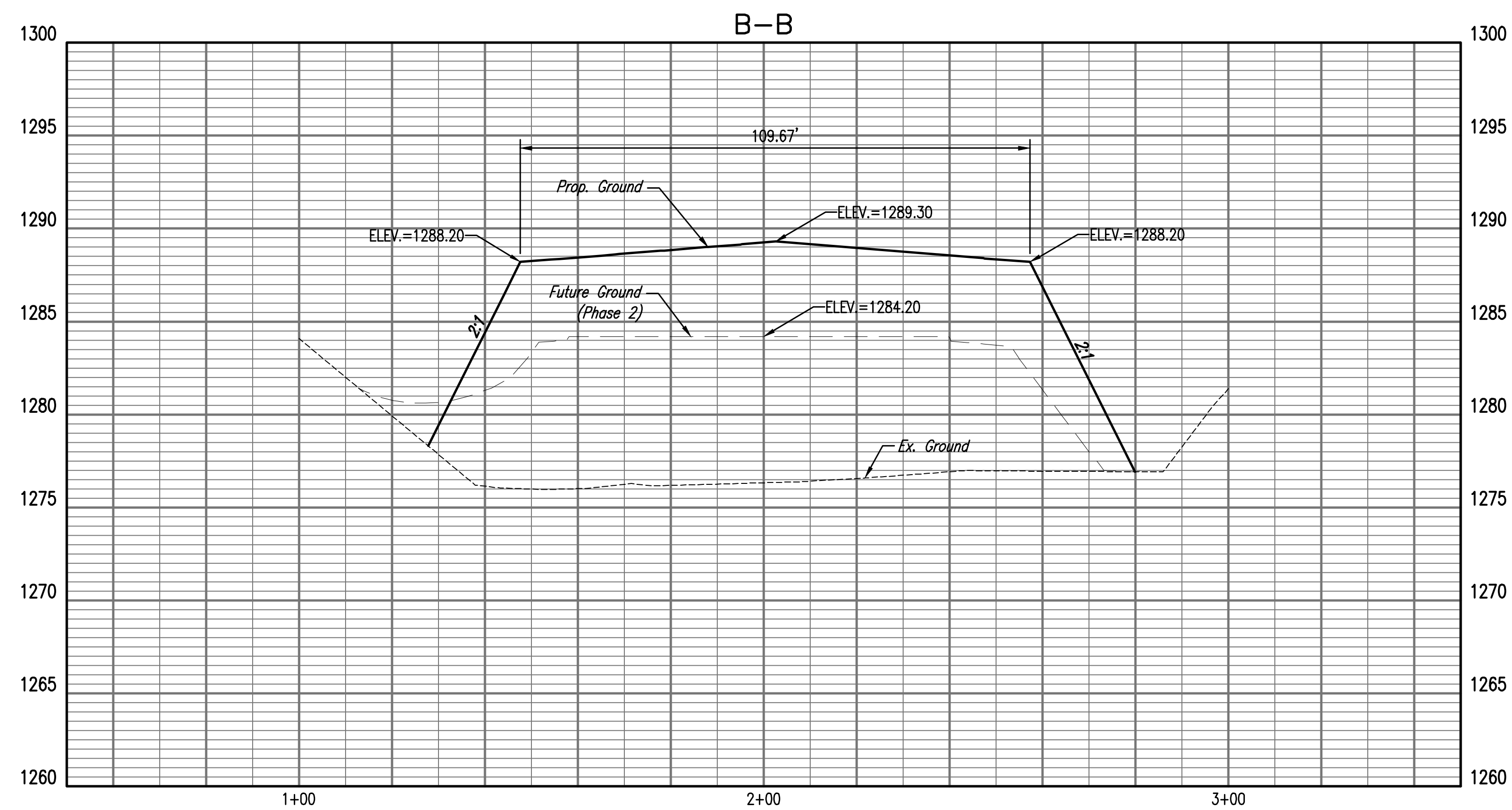
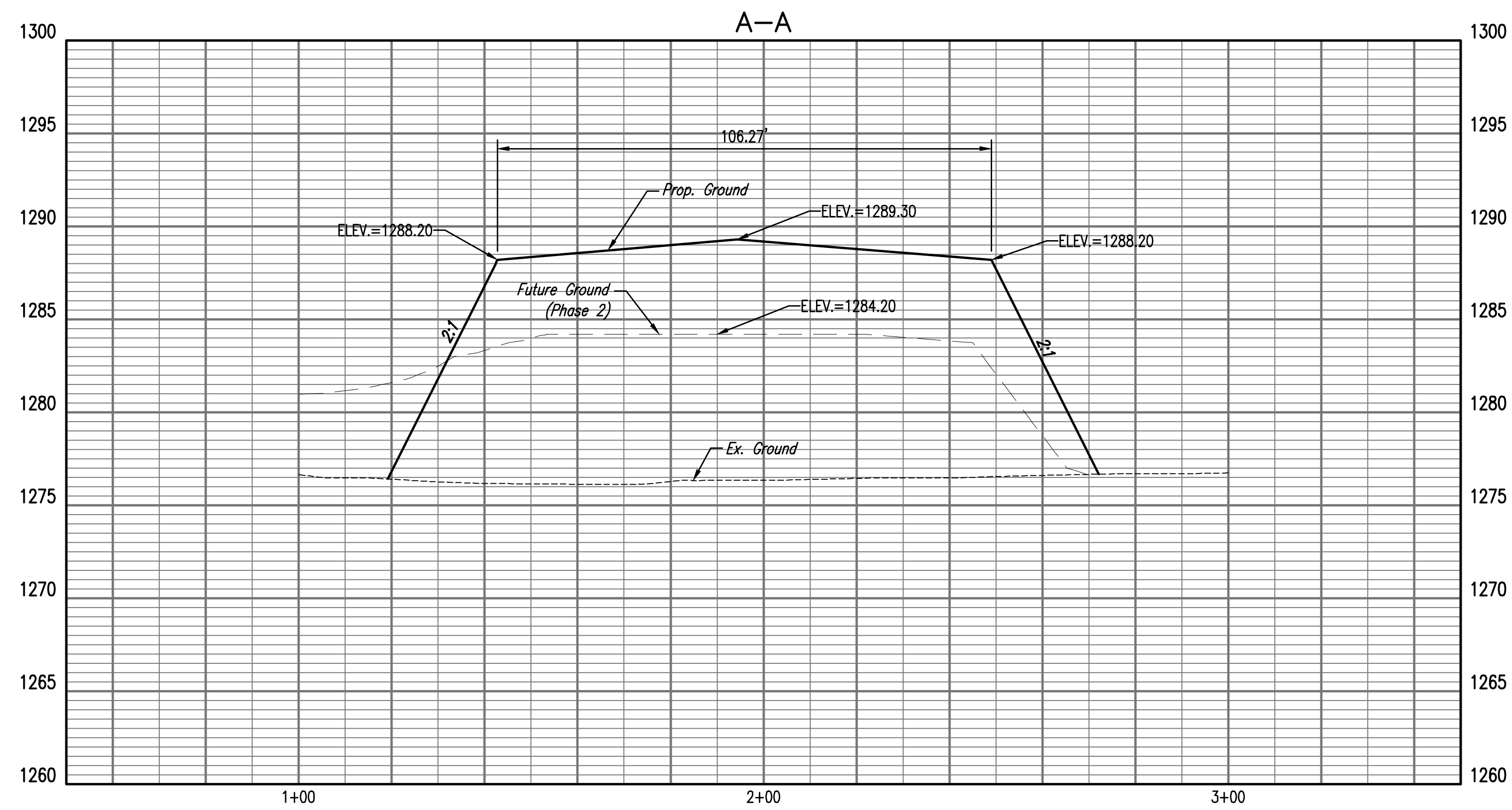
\*\* UPON REACHING FINISH FLOOR ELEVATION ON THE STRUCTURAL FILL, THE CONTRACTOR SHALL STAKE THE LIMITS OF BUILDING, WALLS, AND FOUNDATIONS TO ENSURE A 15' OFFSET TO STRUCTURAL FILL LIMIT.

REFER TO GEOTECHNICAL ENGINEERING REPORT, PERFORMED BY TERRACON CONSULTANTS, PROJECT NUMBER 1195039, DATED APRIL 1, 2019 FOR REQUIREMENTS OF FILL FOR PRELOADING THE FUTURE BUILDING PAD.

**PHASE 1 PRELOADING GRADING PLAN**

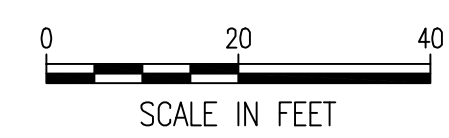


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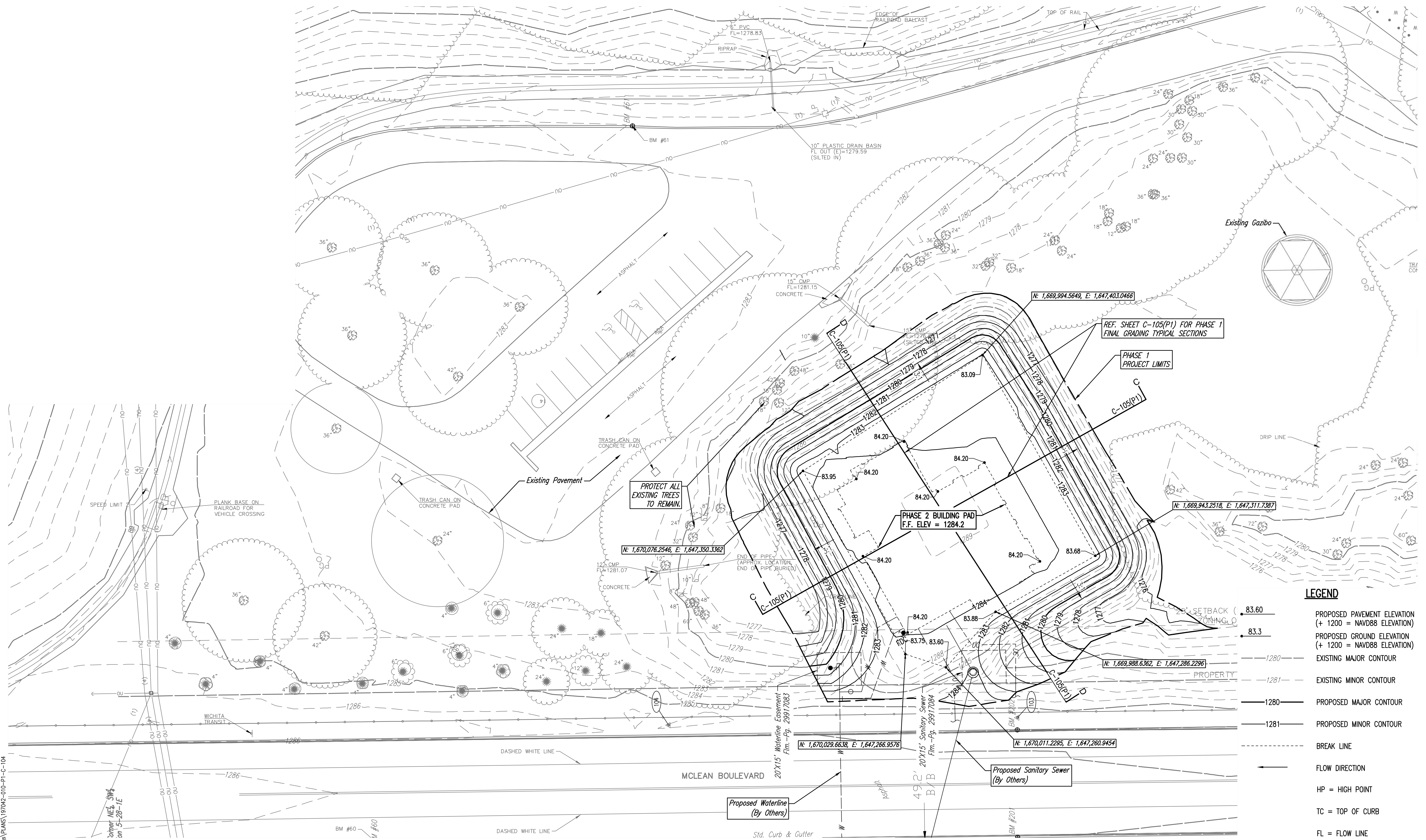


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**1 PHASE 1 PRELOADING TYPICAL SECTIONS**  
 1" = 20'

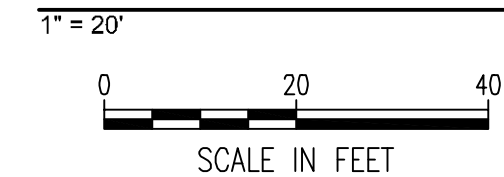


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REFER TO GEOTECHNICAL ENGINEERING REPORT,  
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**PHASE 1 FINAL GRADING PLAN**



**LEGEND**

- 83.60 — PROPOSED PAVEMENT ELEVATION (+ 1200 = NAVD88 ELEVATION)
- 83.3 — PROPOSED GROUND ELEVATION (+ 1200 = NAVD88 ELEVATION)
- 1280 — EXISTING MAJOR CONTOUR
- 1281 — EXISTING MINOR CONTOUR
- 1280 — PROPOSED MAJOR CONTOUR
- 1281 — PROPOSED MINOR CONTOUR
- BREAK LINE
- FLOW DIRECTION
- HP = HIGH POINT
- TC = TOP OF CURB
- FL = FLOW LINE
- BW = BOTTOM OF WALL AT BRIDGE ABUTMENT
- ME = MATCH EXISTING CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.

CITY REVIEW COMMENTS FOR CONSTRUCTION

30 MARCH 20

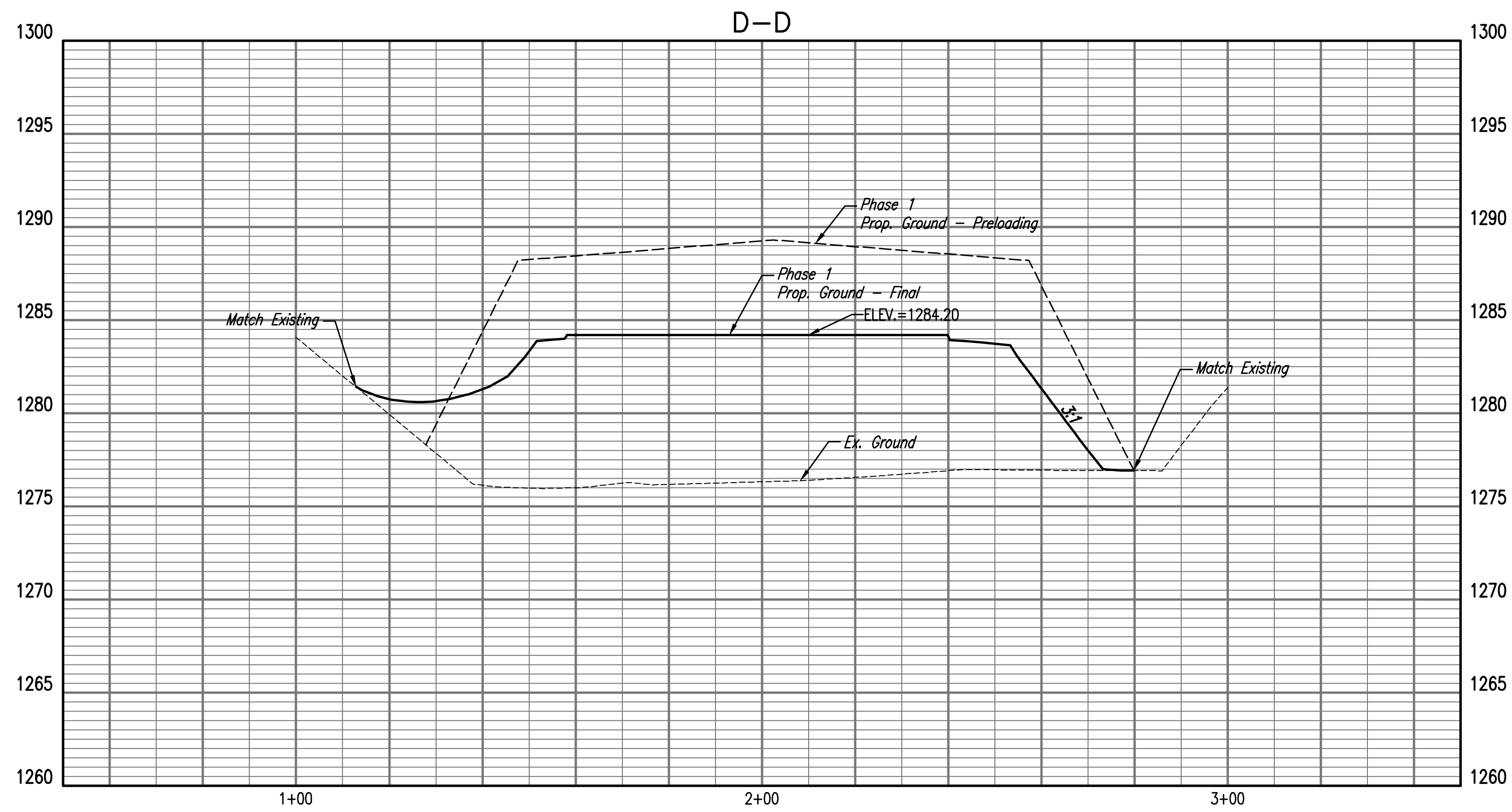
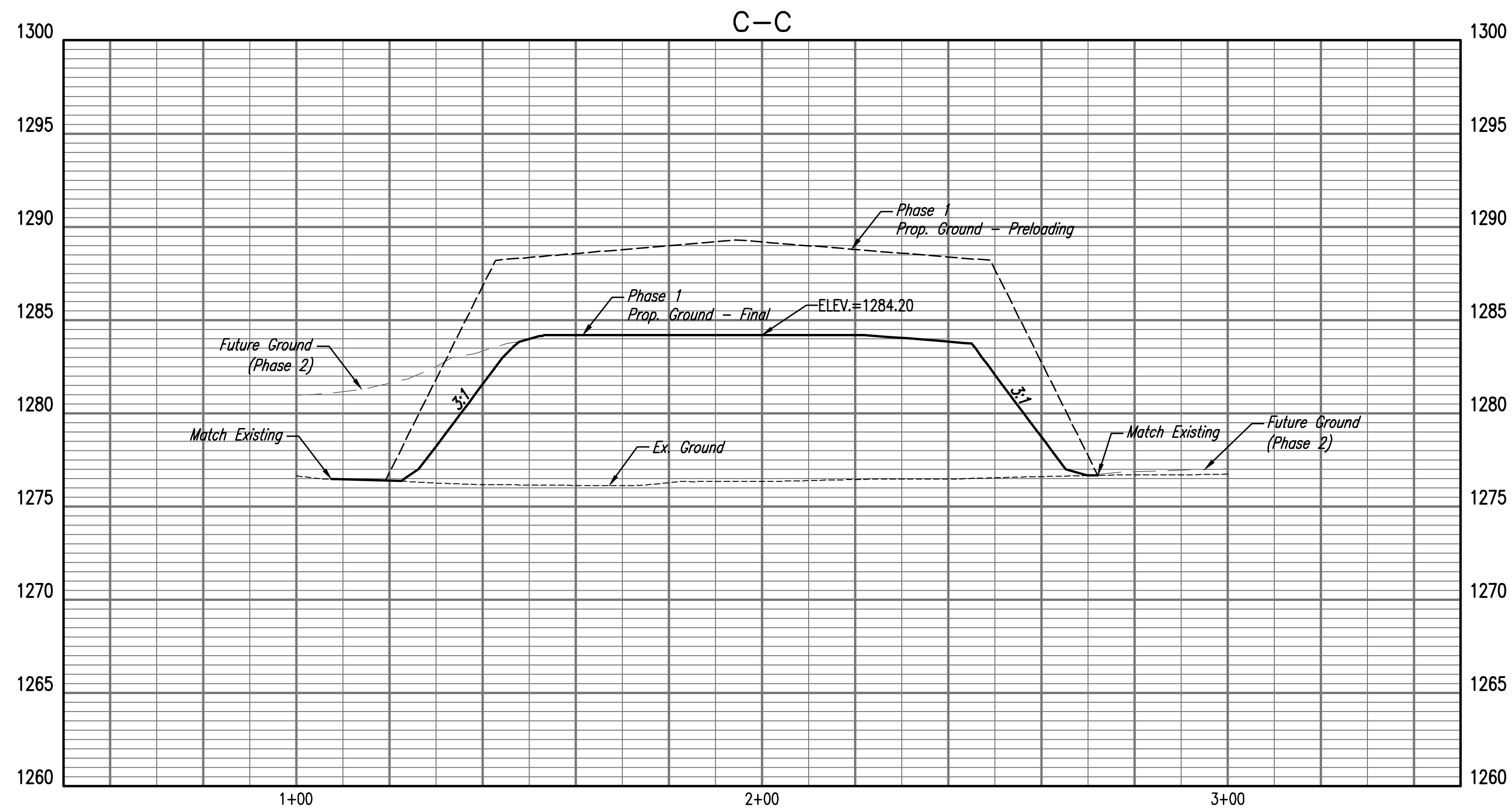
**C-104(P1)**

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**WATSON PARK EVENT CENTER**  
 3022 S MCLEAN BLVD., WICHITA, KS 67217

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REFER TO GEOTECHNICAL ENGINEERING REPORT,  
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**1 PHASE 1 FINAL TYPICAL SECTIONS**



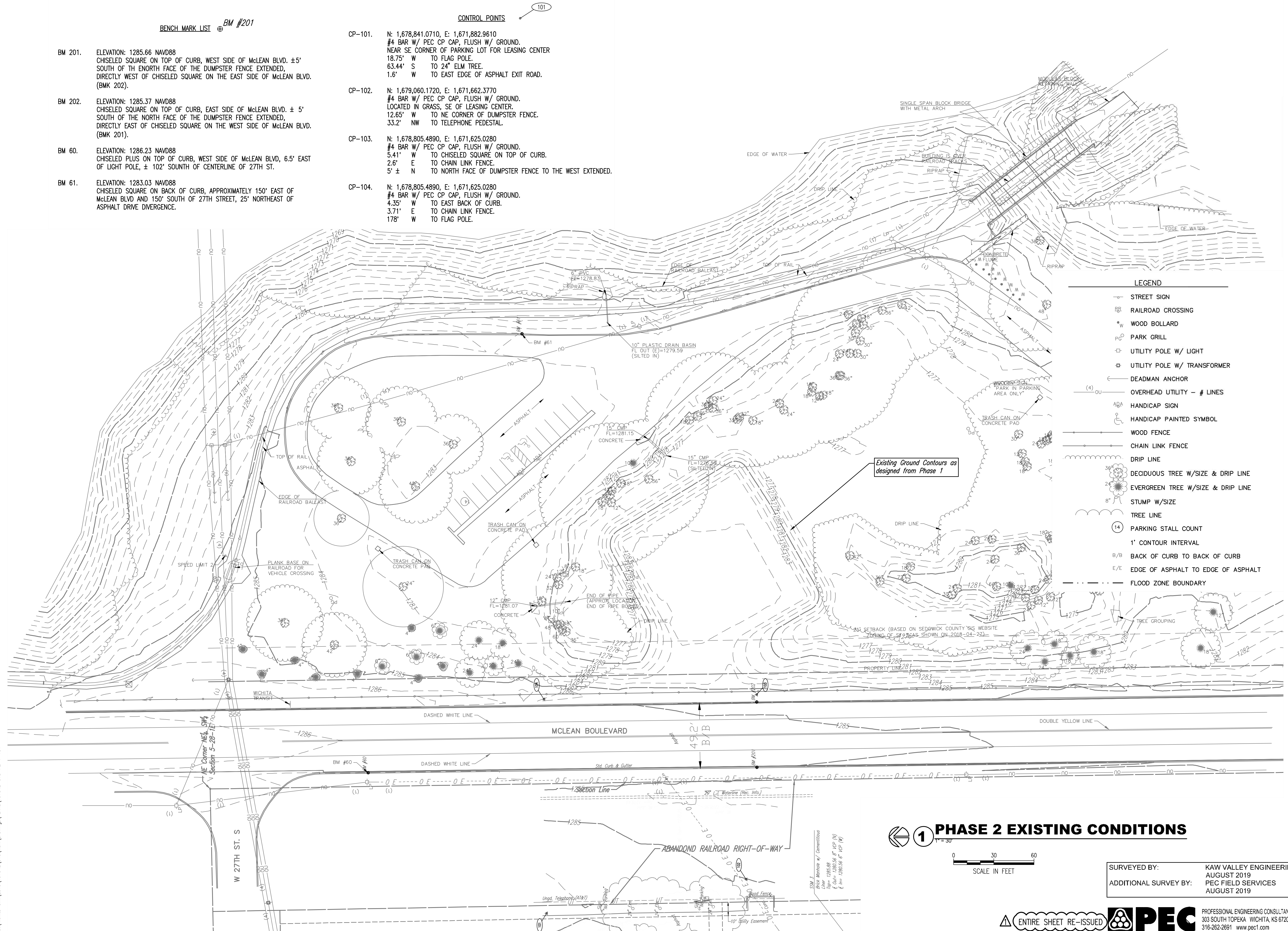


BENCH MARK LIST  $\oplus$  BM #201

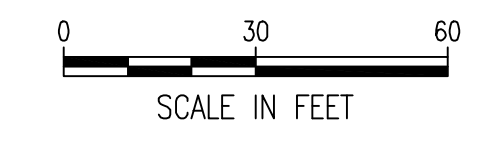
- BM 201. ELEVATION: 1285.66 NAVD88  
CHISELED SQUARE ON TOP OF CURB, WEST SIDE OF McLEAN BLVD.  $\pm$  5'  
SOUTH OF THE NORTH FACE OF THE DUMPSTER FENCE EXTENDED,  
DIRECTLY WEST OF CHISELED SQUARE ON THE EAST SIDE OF McLEAN BLVD.  
(BMK 202).
- BM 202. ELEVATION: 1285.37 NAVD88  
CHISELED SQUARE ON TOP OF CURB, EAST SIDE OF McLEAN BLVD.  $\pm$  5'  
SOUTH OF THE NORTH FACE OF THE DUMPSTER FENCE EXTENDED,  
DIRECTLY EAST OF CHISELED SQUARE ON THE WEST SIDE OF McLEAN BLVD.  
(BMK 201).
- BM 60. ELEVATION: 1286.23 NAVD88  
CHISELED PLUS ON TOP OF CURB, WEST SIDE OF McLEAN BLVD, 6.5' EAST  
OF LIGHT POLE,  $\pm$  102' SOUTH OF CENTERLINE OF 27TH ST.
- BM 61. ELEVATION: 1283.03 NAVD88  
CHISELED SQUARE ON BACK OF CURB, APPROXIMATELY 150' EAST OF  
McLEAN BLVD AND 150' SOUTH OF 27TH STREET, 25' NORTHEAST OF  
ASPHALT DRIVE DIVERGENCE.

CONTROL POINTS

- CP-101. N: 1,678,841.0710, E: 1,671,882.9610  
#4 BAR W/ PEC CP CAP, FLUSH W/ GROUND.  
NEAR SE CORNER OF PARKING LOT FOR LEASING CENTER  
18.75' W TO FLAG POLE.  
63.44' S TO 24" ELM TREE.  
1.8' W TO EAST EDGE OF ASPHALT EXIT ROAD.
- CP-102. N: 1,679,060.1720, E: 1,671,662.3770  
#4 BAR W/ PEC CP CAP, FLUSH W/ GROUND.  
LOCATED IN GRASS, SE OF LEASING CENTER.  
12.65' W TO NE CORNER OF DUMPSTER FENCE.  
33.2' NW TO TELEPHONE PEDESTAL.
- CP-103. N: 1,678,805.4890, E: 1,671,625.0280  
#4 BAR W/ PEC CP CAP, FLUSH W/ GROUND.  
5.41' W TO CHISELED SQUARE ON TOP OF CURB.  
2.6' E TO CHAIN LINK FENCE.  
5'  $\pm$  N TO NORTH FACE OF DUMPSTER FENCE TO THE WEST EXTENDED.
- CP-104. N: 1,678,805.4890, E: 1,671,625.0280  
#4 BAR W/ PEC CP CAP, FLUSH W/ GROUND.  
4.35' W TO EAST BACK OF CURB.  
3.71' E TO CHAIN LINK FENCE.  
178' W TO FLAG POLE.



**1 PHASE 2 EXISTING CONDITIONS**  
1" = 30'



SURVEYED BY: KAW VALLEY ENGINEERING  
AUGUST 2019  
ADDITIONAL SURVEY BY: PEC FIELD SERVICES  
AUGUST 2019

ENTIRE SHEET RE-ISSUED **PEC** PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
303 SOUTH TOPEKA WICHITA, KS 67202  
316-262-2691 www.pec1.com

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**WATSON PARK**  
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CITY REVIEW COMMENTS FOR CONSTRUCTION  
30 MARCH 20

V-101(P2)

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BENCH MARK LIST  $\oplus$  BM #201

CONTROL POINTS

101

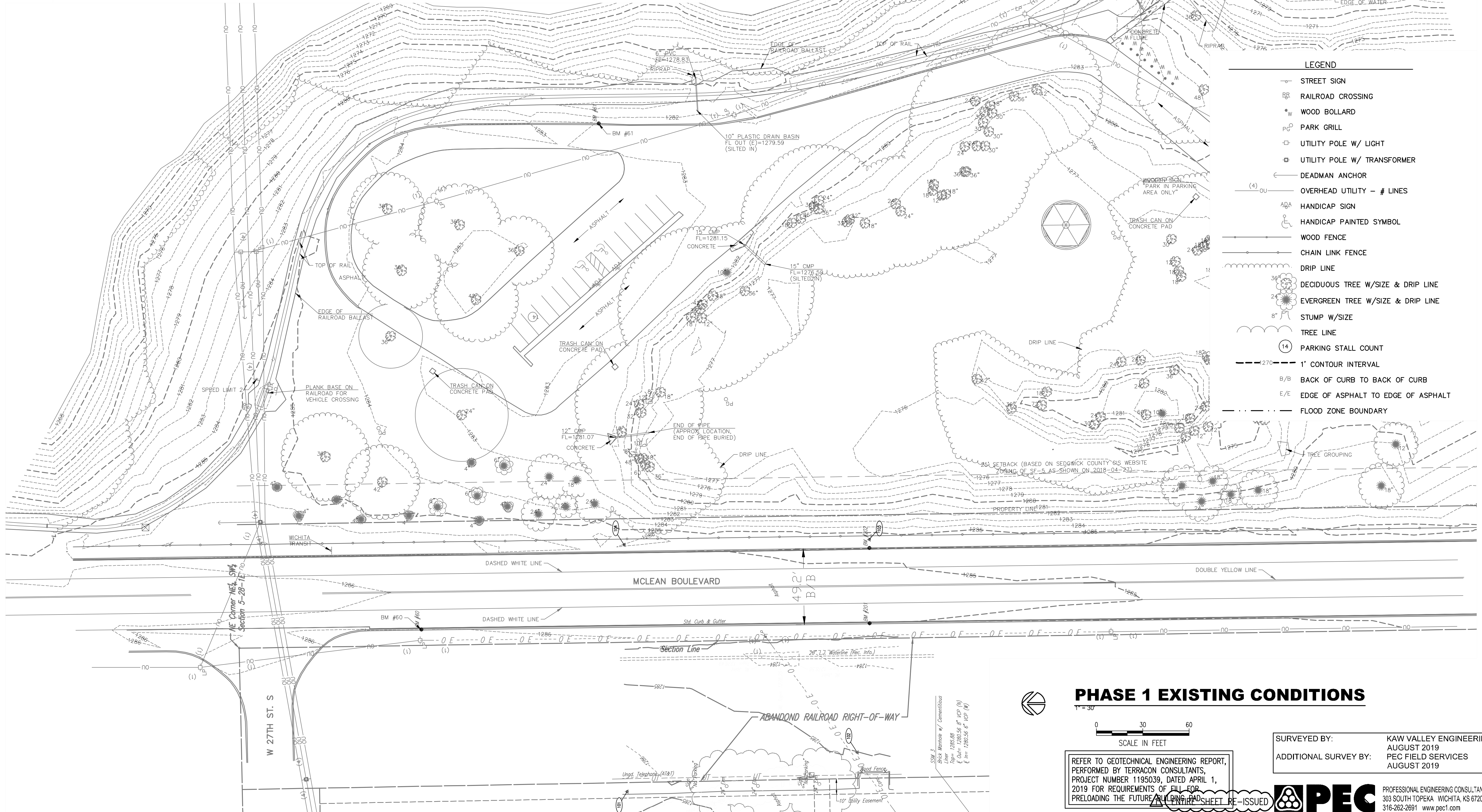
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(BMK 202).

BM 202. ELEVATION: 1285.37 NAVD88  
CHISELED SQUARE ON TOP OF CURB, EAST SIDE OF McLEAN BLVD.  $\pm$  5'  
SOUTH OF THE NORTH FACE OF THE DUMPSTER FENCE EXTENDED,  
DIRECTLY EAST OF CHISELED SQUARE ON THE WEST SIDE OF McLEAN BLVD.  
(BMK 201).

BM 60. ELEVATION: 1286.23 NAVD88  
CHISELED PLUS ON TOP OF CURB, WEST SIDE OF McLEAN BLVD, 6.5' EAST  
OF LIGHT POLE,  $\pm$  102' SOUTH OF CENTERLINE OF 27TH ST.

BM 61. ELEVATION: 1283.03 NAVD88  
CHISELED SQUARE ON BACK OF CURB, APPROXIMATELY 150' EAST OF  
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#4 BAR W/ PEC CP CAP, FLUSH W/ GROUND.  
NEAR SE CORNER OF PARKING LOT FOR LEASING CENTER  
18.75' W TO FLAG POLE.  
63.44' S TO 24" ELM TREE.  
1.6' W TO EAST EDGE OF ASPHALT EXIT ROAD.
- CP-102. N: 1,679,060.1720, E: 1,671,662.3770  
#4 BAR W/ PEC CP CAP, FLUSH W/ GROUND.  
LOCATED IN GRASS, SE OF LEASING CENTER.  
12.65' W TO NE CORNER OF DUMPSTER FENCE.  
33.2' NW TO TELEPHONE PEDESTAL.
- CP-103. N: 1,678,805.4890, E: 1,671,625.0280  
#4 BAR W/ PEC CP CAP, FLUSH W/ GROUND.  
5.41' W TO CHISELED SQUARE ON TOP OF CURB.  
2.6' E TO CHAIN LINK FENCE.  
5'  $\pm$  N TO NORTH FACE OF DUMPSTER FENCE TO THE WEST EXTENDED.
- CP-104. N: 1,678,805.4890, E: 1,671,625.0280  
#4 BAR W/ PEC CP CAP, FLUSH W/ GROUND.  
4.35' W TO EAST BACK OF CURB.  
3.71' E TO CHAIN LINK FENCE.  
178' W TO FLAG POLE.



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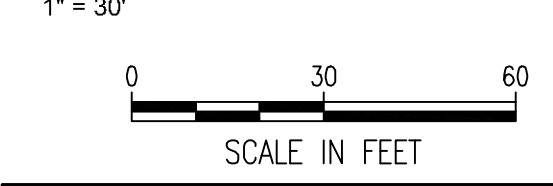
**WATSON PARK**  
**EVENT CENTER**

3022 S McLEAN BLVD, WICHITA, KS 67217

CITY REVIEW  
 COMMENTS  
 FOR  
 CONSTRUCTION  
 30 MARCH 20

V-101(P1)

**PHASE 1 EXISTING CONDITIONS**



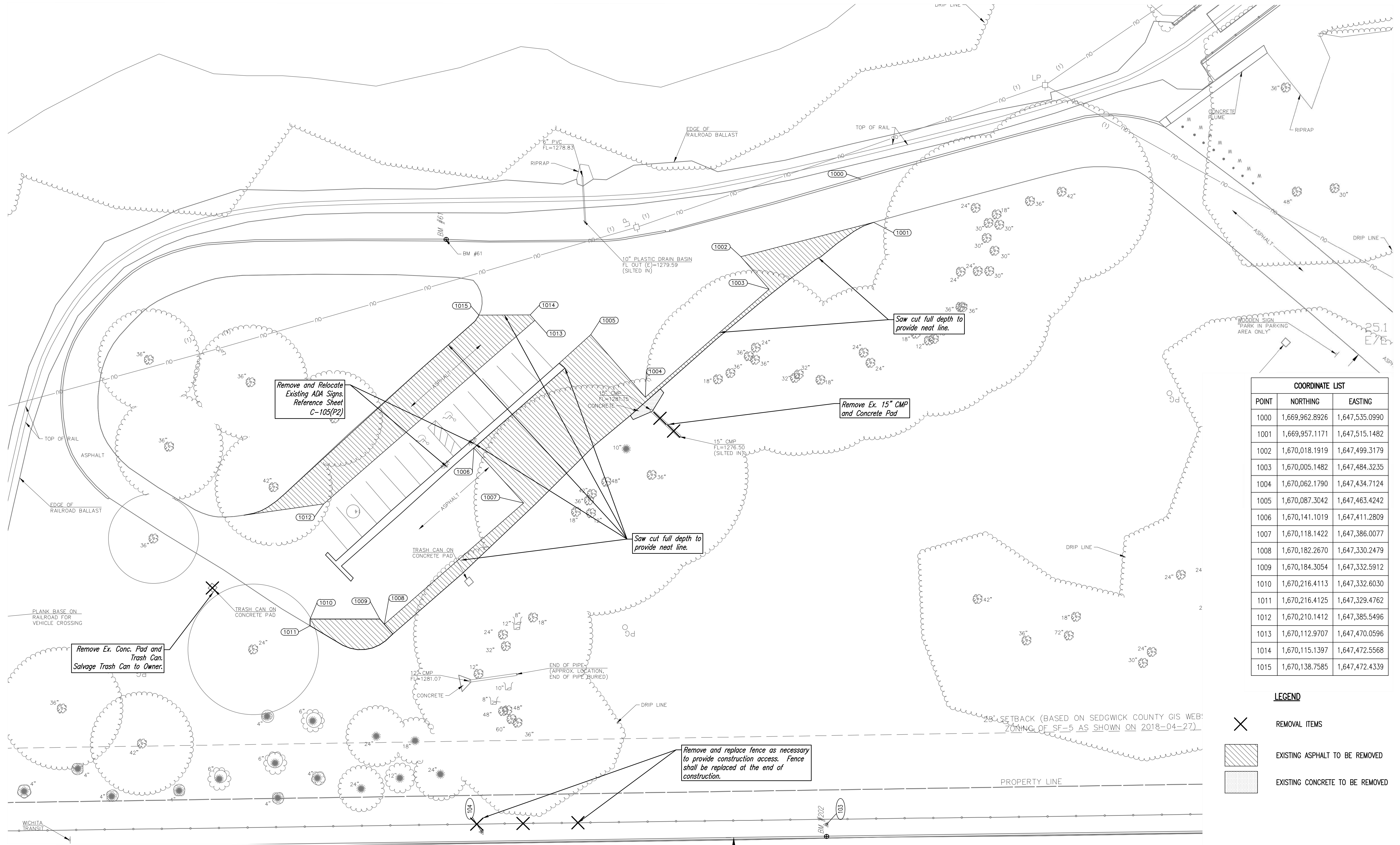
REFER TO GEOTECHNICAL ENGINEERING REPORT,  
 PERFORMED BY TERRACON CONSULTANTS,  
 PROJECT NUMBER 1195039, DATED APRIL 1,  
 2019 FOR REQUIREMENTS OF FILL FOR  
 PRELOADING THE FUTURE RAILCROSS SHEET RE-ISSUED

SURVEYED BY: KAW VALLEY ENGINEERING  
 AUGUST 2019  
 ADDITIONAL SURVEY BY: PEC FIELD SERVICES  
 AUGUST 2019

**PEC** PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
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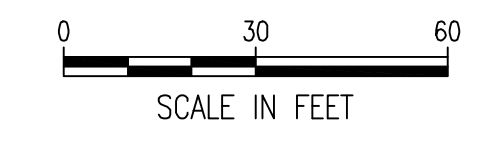


COORDINATE LIST		
POINT	NORTHING	EASTING
1000	1,669,962.8926	1,647,535.0990
1001	1,669,957.1171	1,647,515.1482
1002	1,670,018.1919	1,647,499.3179
1003	1,670,005.1482	1,647,484.3235
1004	1,670,062.1790	1,647,434.7124
1005	1,670,087.3042	1,647,463.4242
1006	1,670,141.1019	1,647,411.2809
1007	1,670,118.1422	1,647,386.0077
1008	1,670,182.2670	1,647,330.2479
1009	1,670,184.3054	1,647,332.5912
1010	1,670,216.4113	1,647,332.6030
1011	1,670,216.4125	1,647,329.4762
1012	1,670,210.1412	1,647,385.5496
1013	1,670,112.9707	1,647,470.0596
1014	1,670,115.1397	1,647,472.5568
1015	1,670,138.7585	1,647,472.4339

**LEGEND**

- REMOVAL ITEMS
- EXISTING ASPHALT TO BE REMOVED
- EXISTING CONCRETE TO BE REMOVED

**1 PHASE 2 DEMOLITION PLAN**  
 1" = 30'



**WATSON PARK EVENT CENTER**

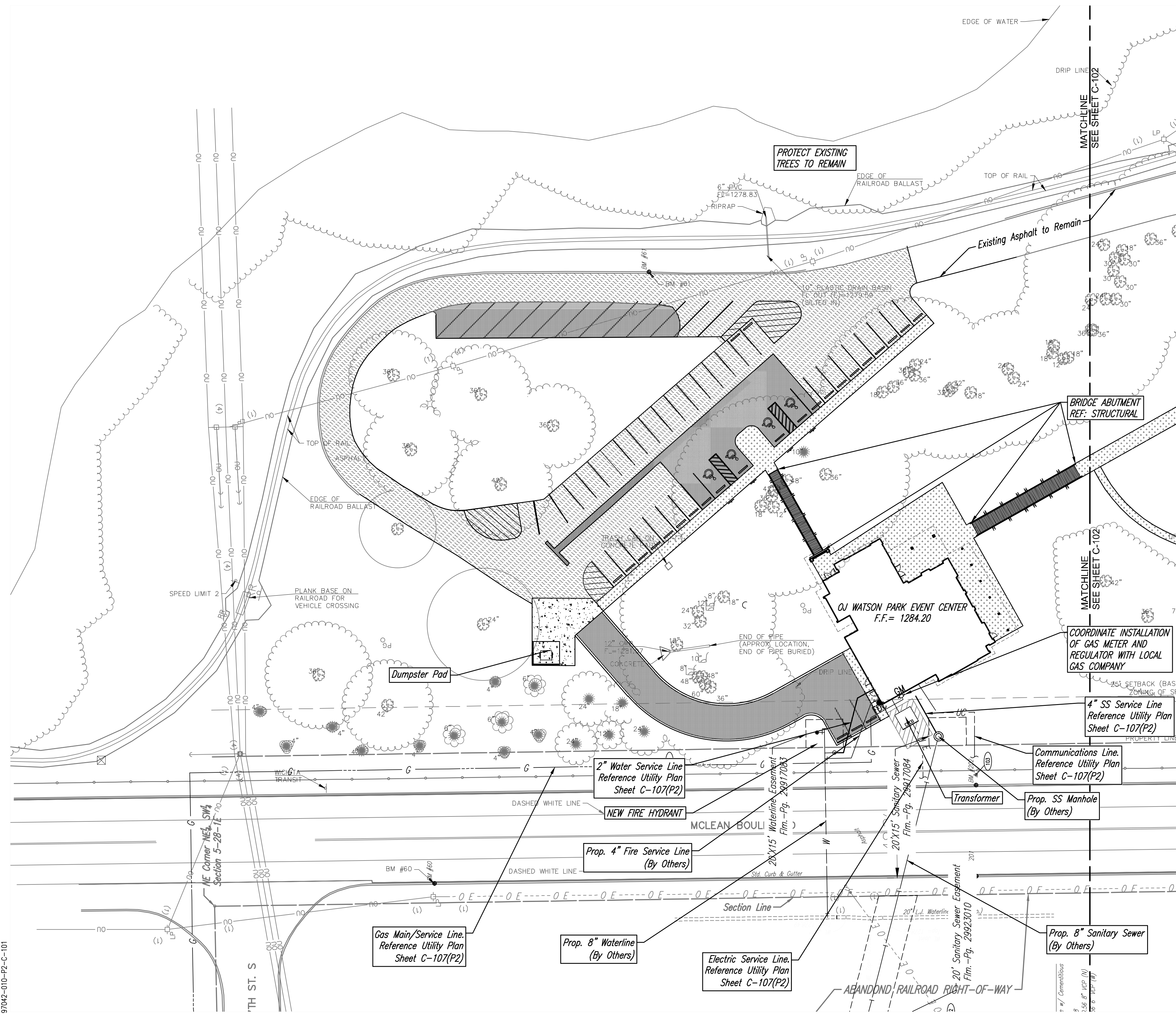
3022 S MCLEAN BLVD., WICHITA, KS 67217


**CITY REVIEW COMMENTS FOR CONSTRUCTION**

30 MARCH 20

**C-100(P2)**

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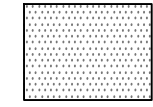

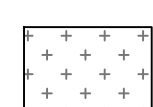
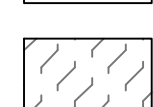



**1 PHASE 2 NORTH SITE PLAN**  
 0 30 60  
 SCALE IN FEET

**GENERAL NOTES**

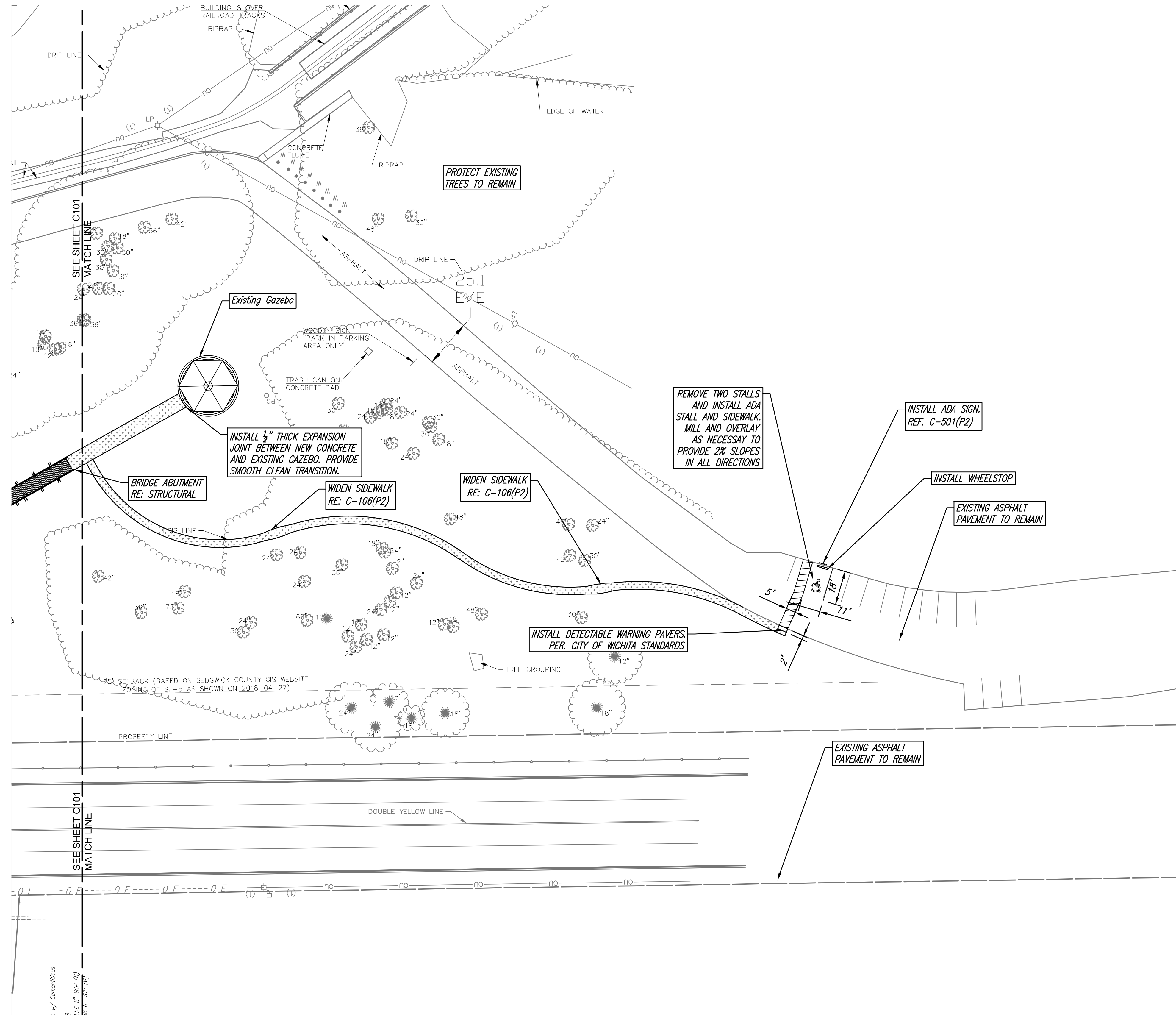
1. AT LEAST 72 HOURS PRIOR TO BEGINNING EXCAVATION (EXCLUDING WEEKENDS AND HOLIDAYS), THE CONTRACTOR SHALL CONTACT THE KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT (620) DIG-SAFE (1-800-344-7233) TO REQUEST THE LOCAL UTILITY COMPANIES MARK ANY EXISTING LINES WITHIN THE PROJECT AREA.
2. THE CONTRACTOR SHALL PROVIDE TO OWNER, ONE SET OF PLANS MARKED IN RED INK INDICATING ALL CHANGES MADE TO THE PROJECT INCLUDING ACTUAL LOCATIONS OF BURIED UTILITIES. ALL RECORD INFORMATION SHALL BE BASED ON PLAN CONTROL POINTS.
4. THE CONTRACTOR SHALL SUBMIT HIS ANTICIPATED "SEQUENCE OF CONSTRUCTION" PLAN PRIOR TO THE START OF CONSTRUCTION.
5. THE CONTRACTOR SHALL CONTAIN HIS OPERATIONS TO PROJECT SITE. THE CONTRACTOR SHALL ERECT WARNING SIGNS, FLASHING LIGHTS, AND BARRICADES IN COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES TO ENSURE SAFETY.
6. EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION WAS OBTAINED FROM RECORD DRAWINGS OR FIELD LOCATION. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED. THE CONTRACTOR SHALL PROTECT ALL EXISTING UNDERGROUND UTILITIES, SHOWN ON THE PLANS OR DISCOVERED DURING THE COURSE OF THE WORK. THE CONTRACTOR SHOULD EXERCISE EXTREME CAUTION IN MAKING EXCAVATIONS FOR STRUCTURES AND PIPELINES.
7. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL BENCH MARKS, REFERENCE POINTS AND STAKES.
8. SHEETING AND SHORING. EXCEPT WHERE BANKS ARE CUT BACK ON A STABLE SLOPE, EXCAVATION FOR STRUCTURES AND TRENCHES SHALL BE PROPERLY AND SUBSTANTIALLY SHEETED, BRACED, AND SHORED, AS REQUIRED AND IN COMPLIANCE WITH ALL CURRENT OSHA REGULATIONS.
9. THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY CONSTRUCTION TO THEIR ORIGINAL CONDITION, UNLESS OTHERWISE NOTED ON THE PLANS.
10. POSITIVE DRAINAGE SHALL BE PROVIDED FOR ALL AREAS ON OR NEAR SPOIL AREAS. NATURAL DRAINAGE WAYS SHALL BE MAINTAINED.
11. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL RE-ESTABLISH CONTROL POINTS AND BENCHMARKS TO VERIFY THEIR ACCURACY.
12. EARTHWORK SHALL MEET REQUIREMENTS OF THE GEOTECHNICAL REPORT.
13. THE CONTRACTOR SHALL EXPOSE AND VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF EXISTING UTILITIES THAT ARE WITHIN THE LIMITS OF CONSTRUCTION. THE UTILITY LOCATES SHALL BE PERFORMED PRIOR TO THE START OF CONSTRUCTION AND ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
14. THE SITE SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AS INDICATED ON THE GRADING PLAN. UNDER NO CIRCUMSTANCES WILL PONDING BE ALLOWED. THE CONTRACTOR SHALL REPORT ANY GRADING DISCREPANCIES TO THE ENGINEER FOR RESOLUTION PRIOR TO CONSTRUCTION.
15. THE CONTRACTOR SHALL OBTAIN ANY NECESSARY PERMITS PRIOR TO CONSTRUCTION.
16. CONTRACTOR SHALL USE EXTREME CAUTION DURING DEMOLITION TO PROTECT ALL UTILITIES, LANDSCAPING, TREES, ETC. WHICH ARE TO BE SAVED.
17. DEMOLISHED MATERIALS ARE TO BE REMOVED OFF SITE UNLESS OTHERWISE NOTED.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
19. THE EXISTING CONTOURS SHOWN REPRESENT THE BEST INFORMATION AVAILABLE FOR DESIGN. THE CONTRACTOR SHALL SATISFY THEMSELVES OF ACTUAL SITE CONDITIONS PRIOR TO BIDDING.
20. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL METHODS AS SPECIFIED ON THE EROSION CONTROL PLAN CONTAINED HEREIN. CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING AND IMPLEMENTING BEST MANAGEMENT PRACTICES FOR EROSION CONTROL TO MINIMIZE POLLUTANTS IN STORM WATER DISCHARGES AND TO CONFORM TO THE REQUIREMENTS OF EPA NPDES PERMIT FOR DISTURBED AREAS GREATER THAN 1 ACRE.

**LEGEND**

-  5 1/2" ASPHALT  
SEE DETAIL, SHEET C-501(P2)
-  7" CONCRETE PAVEMENT  
SEE DETAIL, SHEET C-501(P2)
-  4" CONCRETE SIDEWALK  
SEE DETAIL, SHEET C-501(P2)
-  PROVIDE SEAL COAT OVER  
EXISTING PAVEMENT



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**1 PHASE 2 SOUTH SITE PLAN**  
 1" = 30'  
 SCALE IN FEET

**LEGEND**

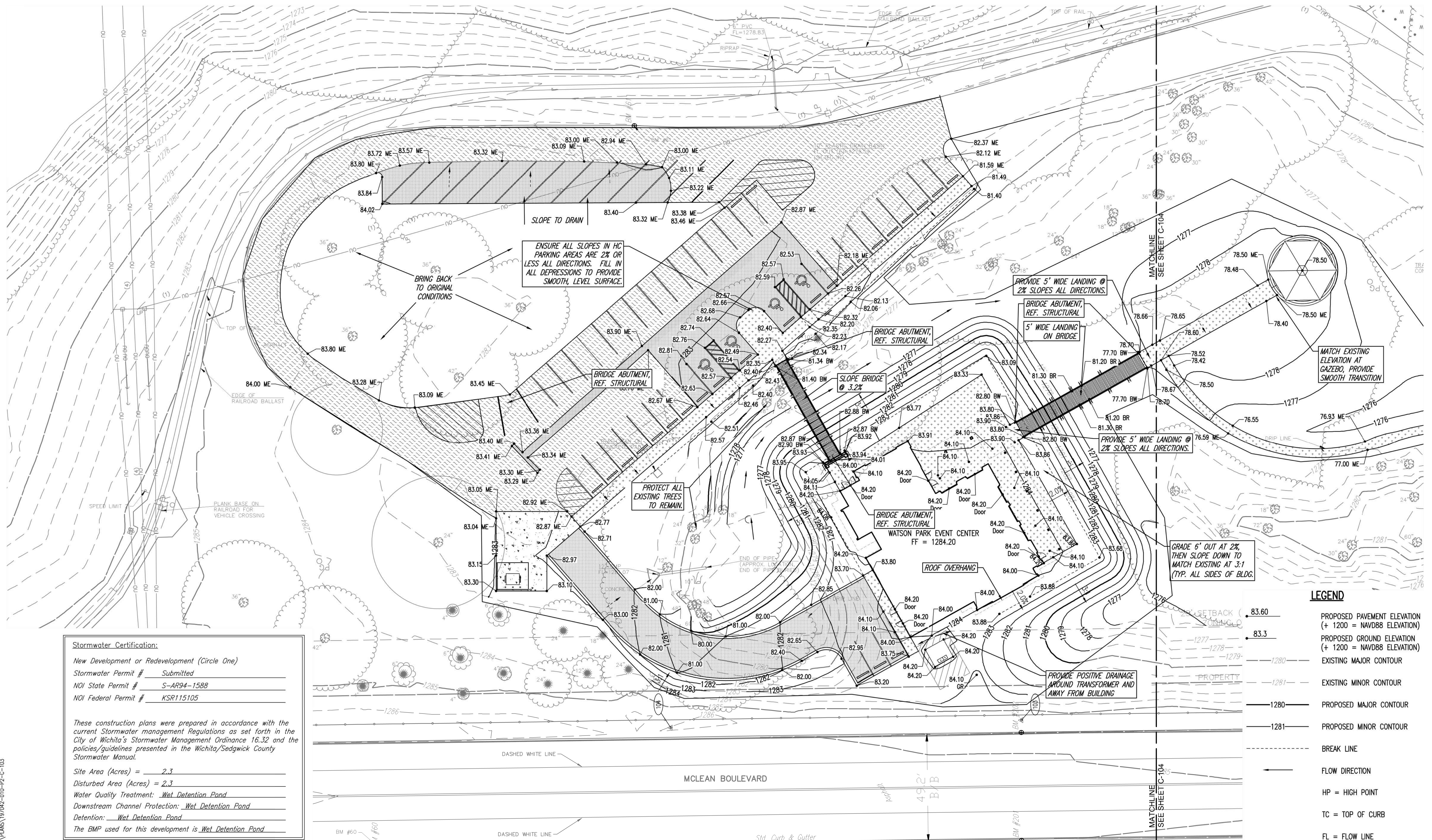
	5 1/2" ASPHALT SEE DETAIL, SHEET C-501(P2)
	7" CONCRETE PAVEMENT SEE DETAIL, SHEET C-501(P2)
	4" CONCRETE SIDEWALK SEE DETAIL, SHEET C-501(P2)



CITY REVIEW COMMENTS FOR CONSTRUCTION  
 30 MARCH 20

**C-102(P2)**

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**Stormwater Certification:**

New Development or Redevelopment (Circle One)

Stormwater Permit # Submitted

NOI State Permit # S-AR94-1588

NOI Federal Permit # KSR115105

These construction plans were prepared in accordance with the current Stormwater management Regulations as set forth in the City of Wichita's Stormwater Management Ordinance 16.32 and the policies/guidelines presented in the Wichita/Sedgwick County Stormwater Manual.

Site Area (Acres) = 2.3

Disturbed Area (Acres) = 2.3

Water Quality Treatment: Wet Detention Pond

Downstream Channel Protection: Wet Detention Pond

Detention: Wet Detention Pond

The BMP used for this development is Wet Detention Pond

CITY TO PROVIDE BORROW SITE FOR CONTRACTOR TO IMPORT EARTHWORK FROM.

CITY TO PROVIDE ANY TREE TRIMMING AS REQUIRED.

**1 PHASE 2 NORTH GRADING PLAN**

1" = 20'

0 20 40

SCALE IN FEET

- LEGEND**
- 83.60 PROPOSED PAVEMENT ELEVATION (+ 1200 = NAVD88 ELEVATION)
  - 83.3 PROPOSED GROUND ELEVATION (+ 1200 = NAVD88 ELEVATION)
  - 1280 EXISTING MAJOR CONTOUR
  - 1281 EXISTING MINOR CONTOUR
  - 1280 PROPOSED MAJOR CONTOUR
  - 1281 PROPOSED MINOR CONTOUR
  - BREAK LINE
  - FLOW DIRECTION
  - HP = HIGH POINT
  - TC = TOP OF CURB
  - FL = FLOW LINE
  - BW = BOTTOM OF WALL AT BRIDGE ABUTMENT
  - ME = MATCH EXISTING CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.

ENTIRE SHEET RE-ISSUED

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**ARCHITECTURE**  
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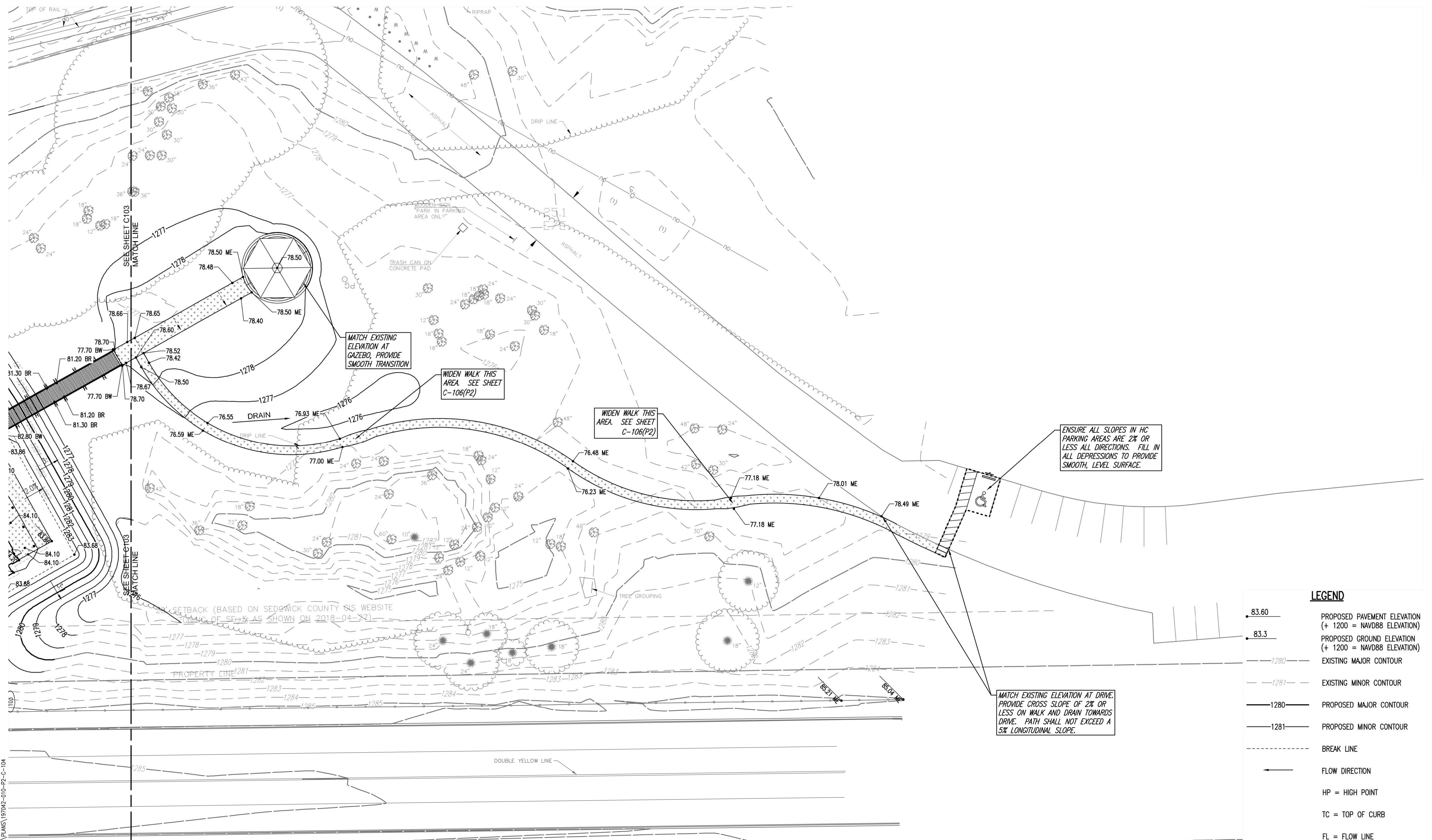
**WATSON PARK**  
**EVENT CENTER**  
 3022 S MCLEAN BLVD., WICHITA, KS 67217

**C-103(P2)**

CITY REVIEW COMMENTS FOR CONSTRUCTION

30 MARCH 20

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**LEGEND**

- 83.60 — PROPOSED PAVEMENT ELEVATION (+ 1200 = NAVD88 ELEVATION)
- 83.3 — PROPOSED GROUND ELEVATION (+ 1200 = NAVD88 ELEVATION)
- 1280 — EXISTING MAJOR CONTOUR
- 1281 — EXISTING MINOR CONTOUR
- 1280 — PROPOSED MAJOR CONTOUR
- 1281 — PROPOSED MINOR CONTOUR
- --- BREAK LINE
- ← FLOW DIRECTION
- HP = HIGH POINT
- TC = TOP OF CURB
- FL = FLOW LINE
- BW = BOTTOM OF WALL AT BRIDGE ABUTMENT
- ME = MATCH EXISTING CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.

**1 PHASE 2 SOUTH GRADING PLAN**  
 1" = 20'  
 0 20 40  
 SCALE IN FEET

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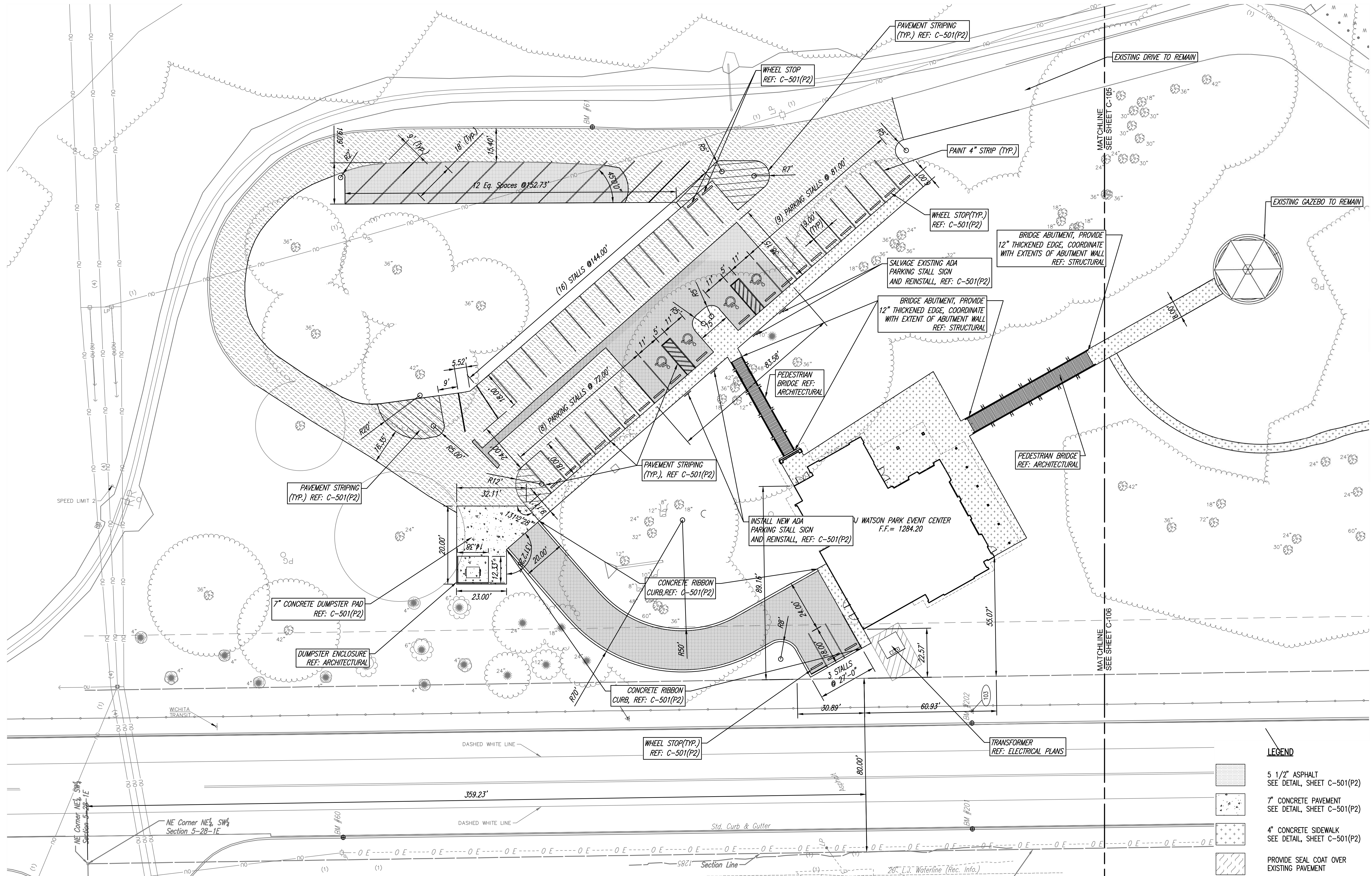


**WATSON PARK**  
**EVENT CENTER**  
 3022 S MCLEAN BLVD, WICHITA, KS 67217

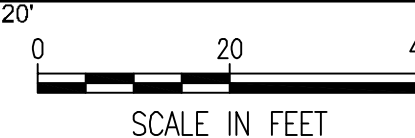
CITY REVIEW COMMENTS FOR CONSTRUCTION  
 30 MARCH 20

**C-104(P2)**

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**1 PHASE 2 NORTH PAVING AND GEOMETRY PLAN**



**LEGEND**

	5 1/2" ASPHALT SEE DETAIL, SHEET C-501(P2)
	7" CONCRETE PAVEMENT SEE DETAIL, SHEET C-501(P2)
	4" CONCRETE SIDEWALK SEE DETAIL, SHEET C-501(P2)
	PROVIDE SEAL COAT OVER EXISTING PAVEMENT

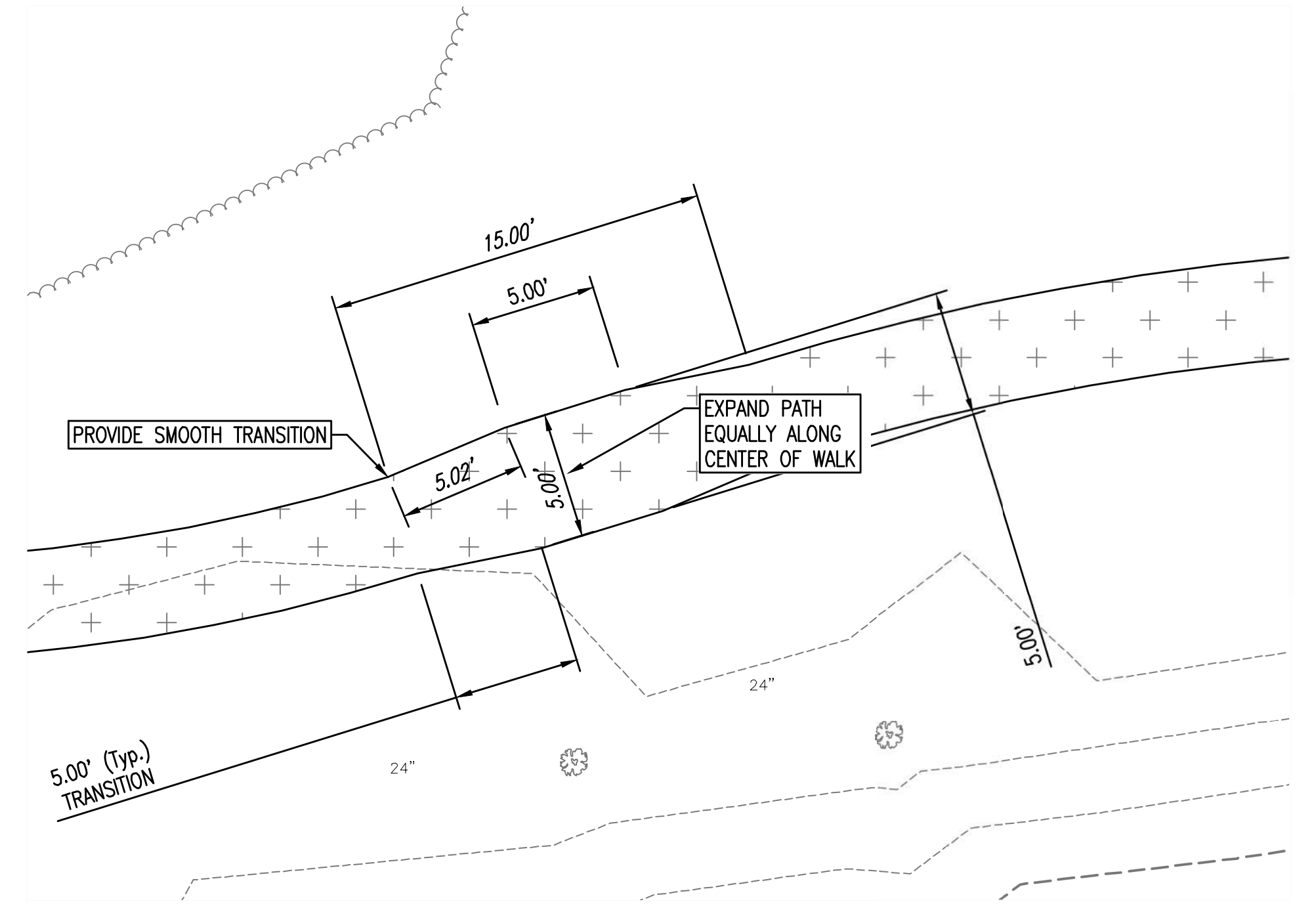
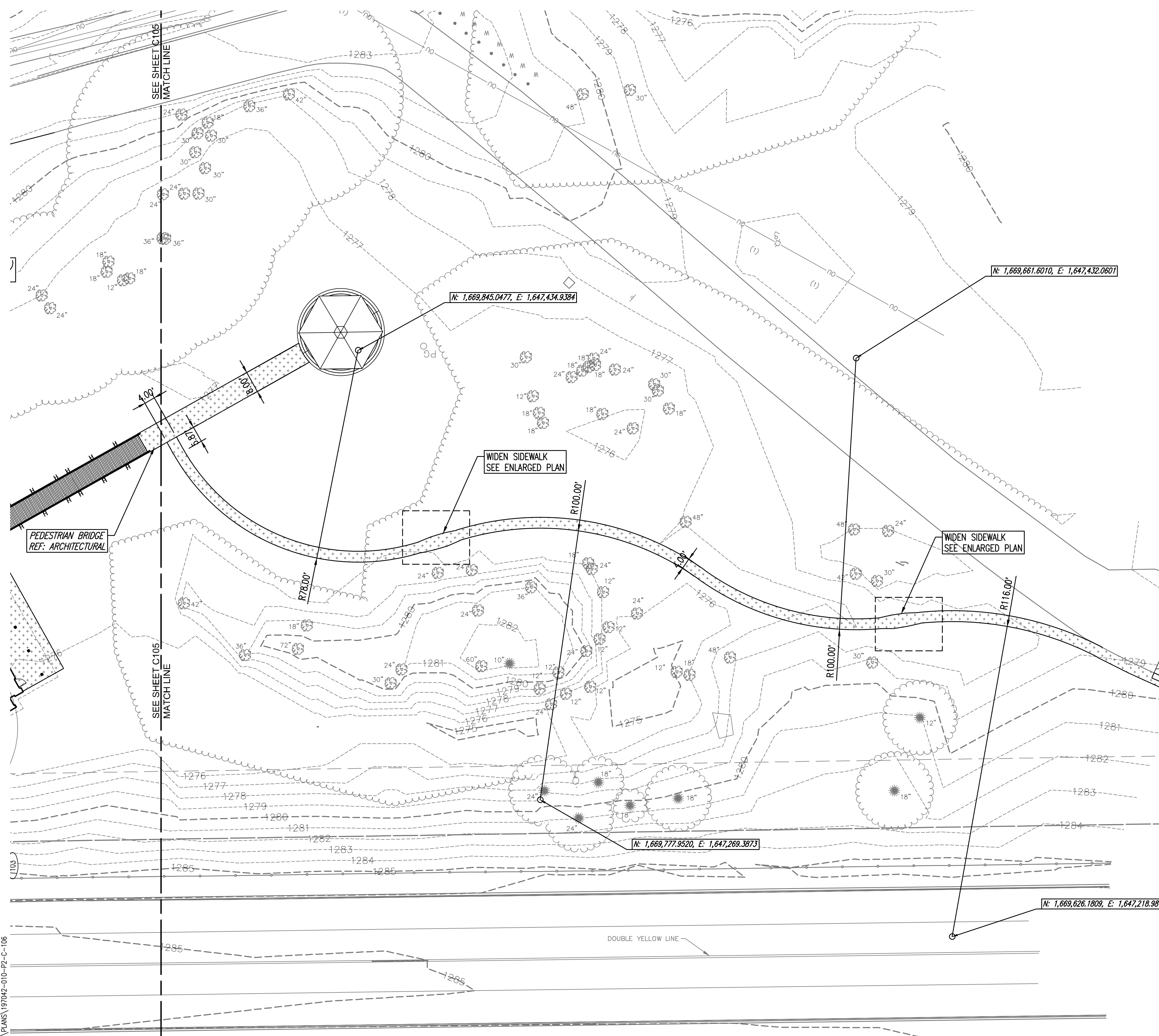
**CITY REVIEW COMMENTS FOR CONSTRUCTION**

30 MARCH 20

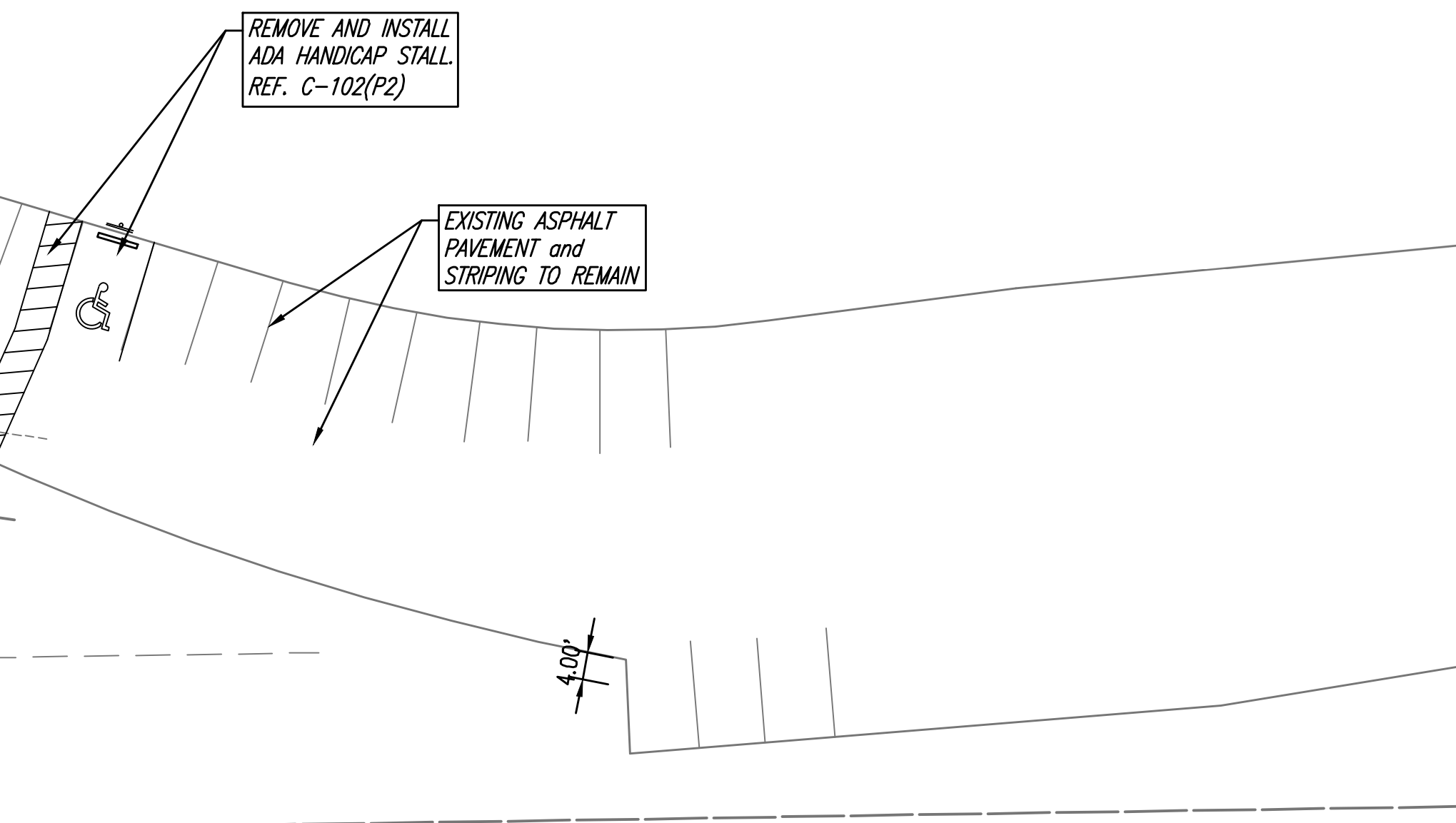
**C-105(P2)**



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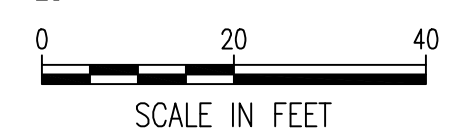
**2 WIDENED SIDEWALK ENLARGED PLAN**



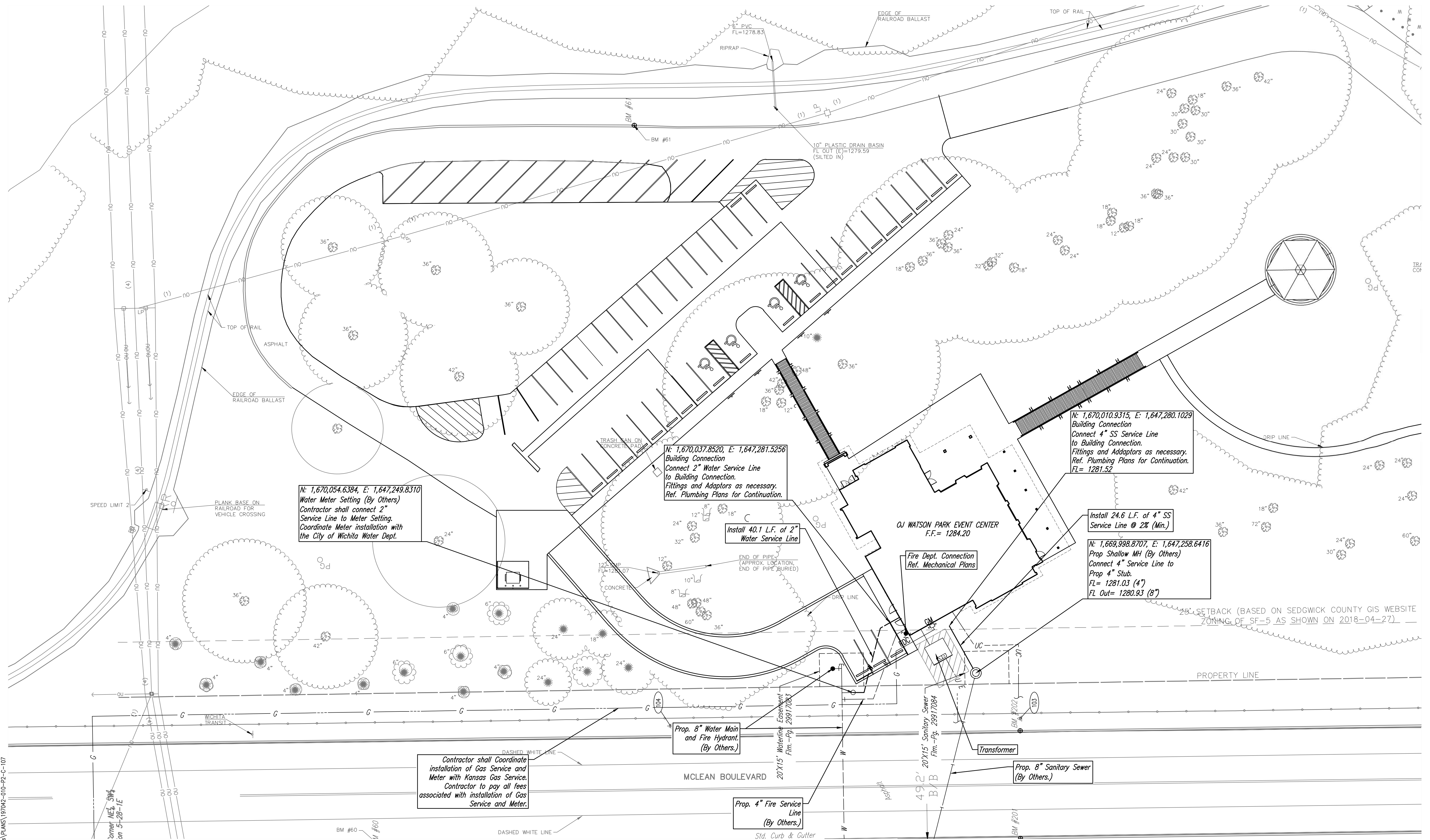
**LEGEND**

	5 1/2" ASPHALT SEE DETAIL, SHEET C-501(P2)
	7" CONCRETE PAVEMENT SEE DETAIL, SHEET C-501(P2)
	4" CONCRETE SIDEWALK SEE DETAIL, SHEET C-501(P2)

**1 PHASE 2 SOUTH PAVING AND GEOMETRY PLAN**



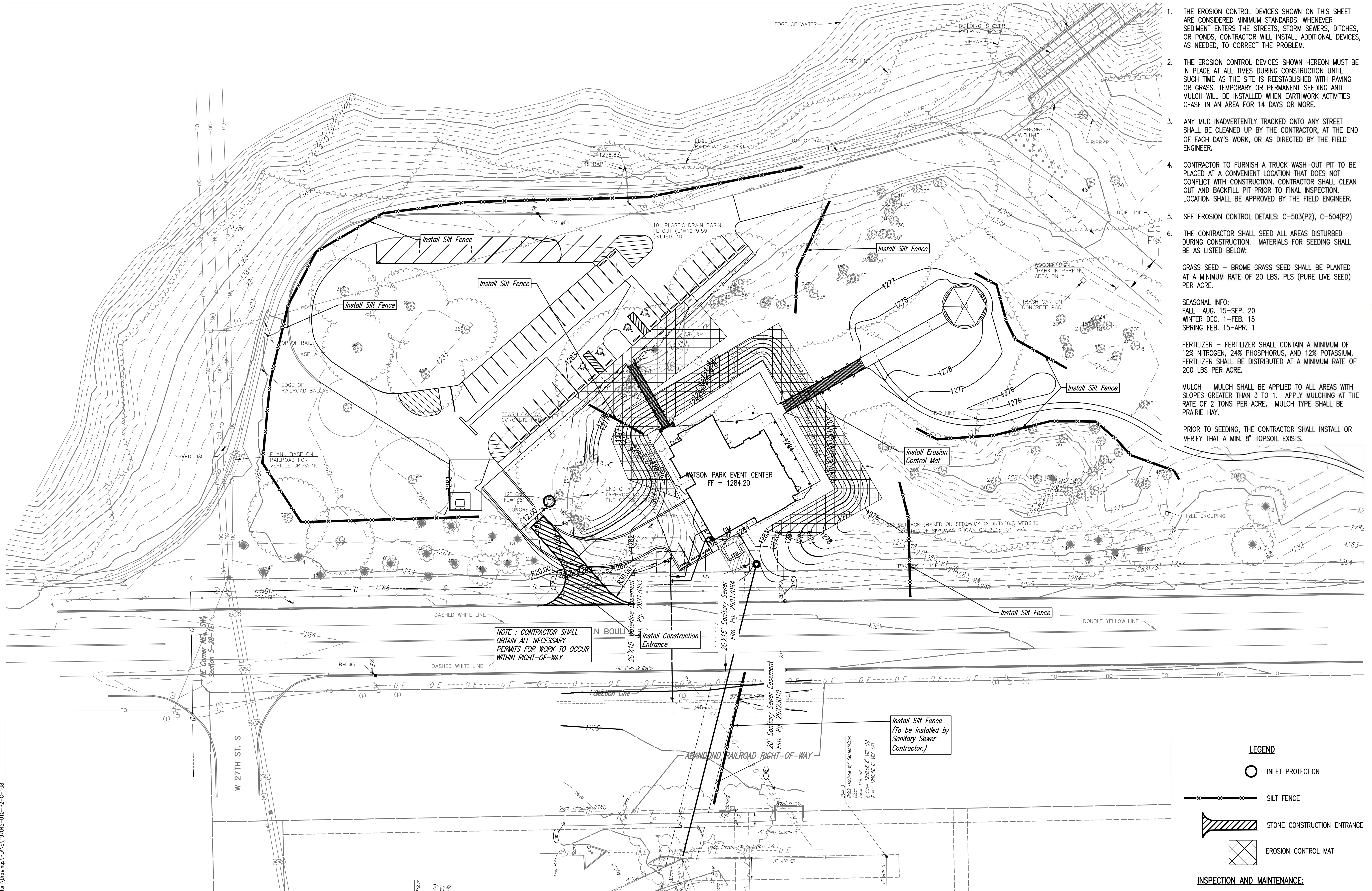
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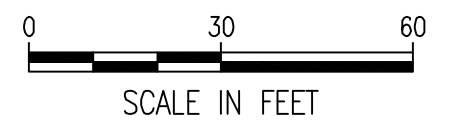
**1 PHASE 2 UTILITY PLAN**



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**1 PHASE 2 EROSION CONTROL PLAN**



1. THE EROSION CONTROL DEVICES SHOWN ON THIS SHEET ARE CONSIDERED MINIMUM STANDARDS. WHENEVER SEDIMENT ENTERS THE STREETS, STORM SEWERS, DITCHES, OR PONDS, CONTRACTOR WILL INSTALL ADDITIONAL DEVICES, AS NEEDED, TO CORRECT THE PROBLEM.
2. THE EROSION CONTROL DEVICES SHOWN HEREON MUST BE IN PLACE AT ALL TIMES DURING CONSTRUCTION UNTIL SUCH TIME AS THE SITE IS REESTABLISHED WITH PAVING OR GRASS. TEMPORARY OR PERMANENT SEEDING AND MULCH WILL BE INSTALLED WHEN EARTHWORK ACTIVITIES CEASE IN AN AREA FOR 14 DAYS OR MORE.
3. ANY MUD INADVERTENTLY TRACKED ONTO ANY STREET SHALL BE CLEANED UP BY THE CONTRACTOR, AT THE END OF EACH DAY'S WORK, OR AS DIRECTED BY THE FIELD ENGINEER.
4. CONTRACTOR TO FURNISH A TRUCK WASH-OUT PIT TO BE PLACED AT A CONVENIENT LOCATION THAT DOES NOT CONFLICT WITH CONSTRUCTION. CONTRACTOR SHALL CLEAN OUT AND BACKFILL PIT PRIOR TO FINAL INSPECTION. LOCATION SHALL BE APPROVED BY THE FIELD ENGINEER.
5. SEE EROSION CONTROL DETAILS: C-503(P2), C-504(P2)
6. THE CONTRACTOR SHALL SEED ALL AREAS DISTURBED DURING CONSTRUCTION. MATERIALS FOR SEEDING SHALL BE AS LISTED BELOW:

GRASS SEED - BROME GRASS SEED SHALL BE PLANTED AT A MINIMUM RATE OF 20 LBS. PLS (PURE LIVE SEED) PER ACRE.

SEASONAL INFO:  
 FALL AUG. 15-SEP. 20  
 WINTER DEC. 1-FEB. 15  
 SPRING FEB. 15-APR. 1

FERTILIZER - FERTILIZER SHALL CONTAIN A MINIMUM OF 12% NITROGEN, 24% PHOSPHORUS, AND 12% POTASSIUM. FERTILIZER SHALL BE DISTRIBUTED AT A MINIMUM RATE OF 200 LBS PER ACRE.

MULCH - MULCH SHALL BE APPLIED TO ALL AREAS WITH SLOPES GREATER THAN 3 TO 1. APPLY MULCHING AT THE RATE OF 2 TONS PER ACRE. MULCH TYPE SHALL BE PRAIRIE HAY.

PRIOR TO SEEDING, THE CONTRACTOR SHALL INSTALL OR VERIFY THAT A MIN. 8" TOPSOIL EXISTS.

**LEGEND**

- INLET PROTECTION
- SILT FENCE
- STONE CONSTRUCTION ENTRANCE
- EROSION CONTROL MAT

**INSPECTION AND MAINTENANCE:**  
 SILT FENCE DITCH CHECKS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE.

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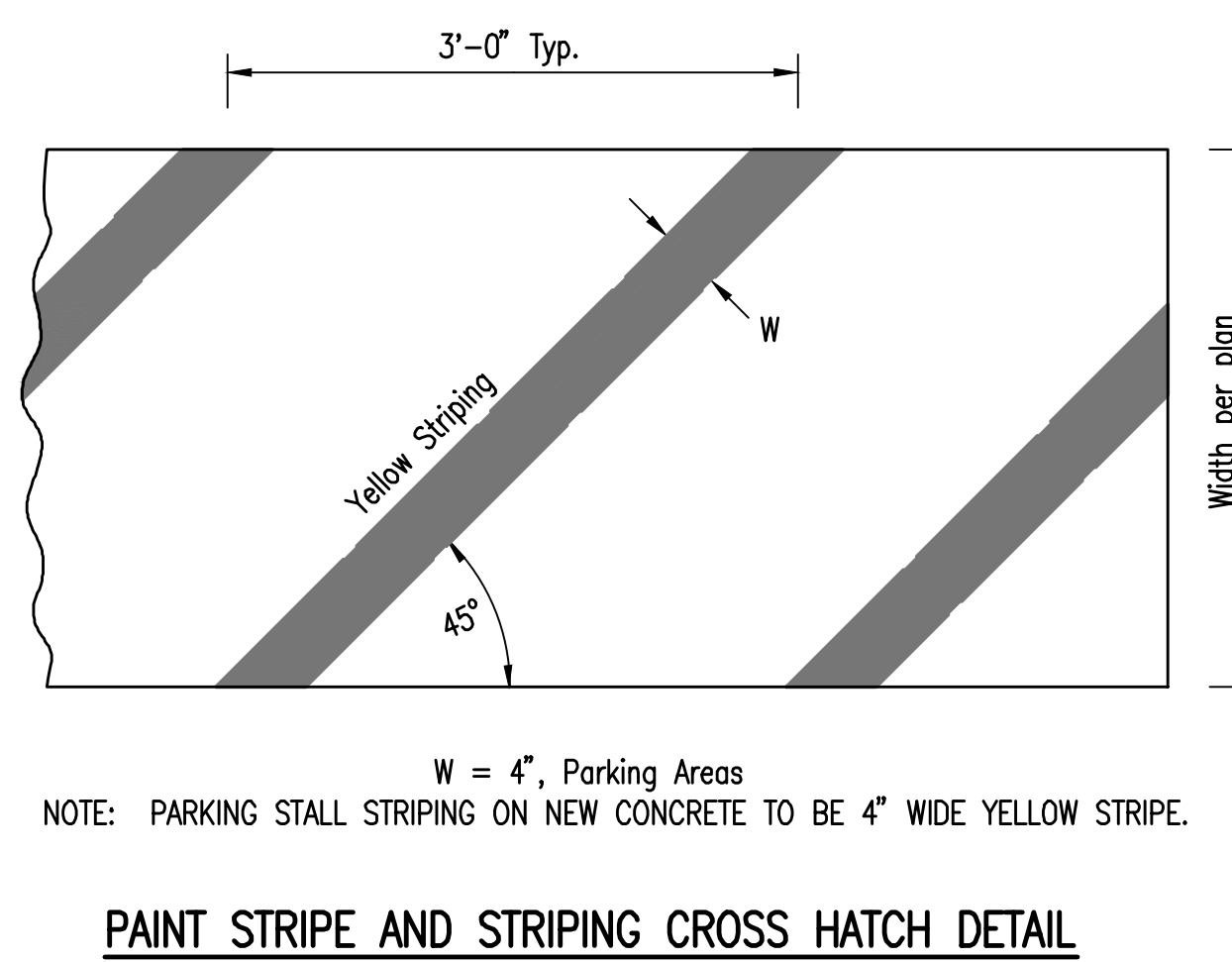


**WATSON PARK  
 EVENT CENTER**  
 3022 S MCLEAN BLVD., WICHITA, KS 67217

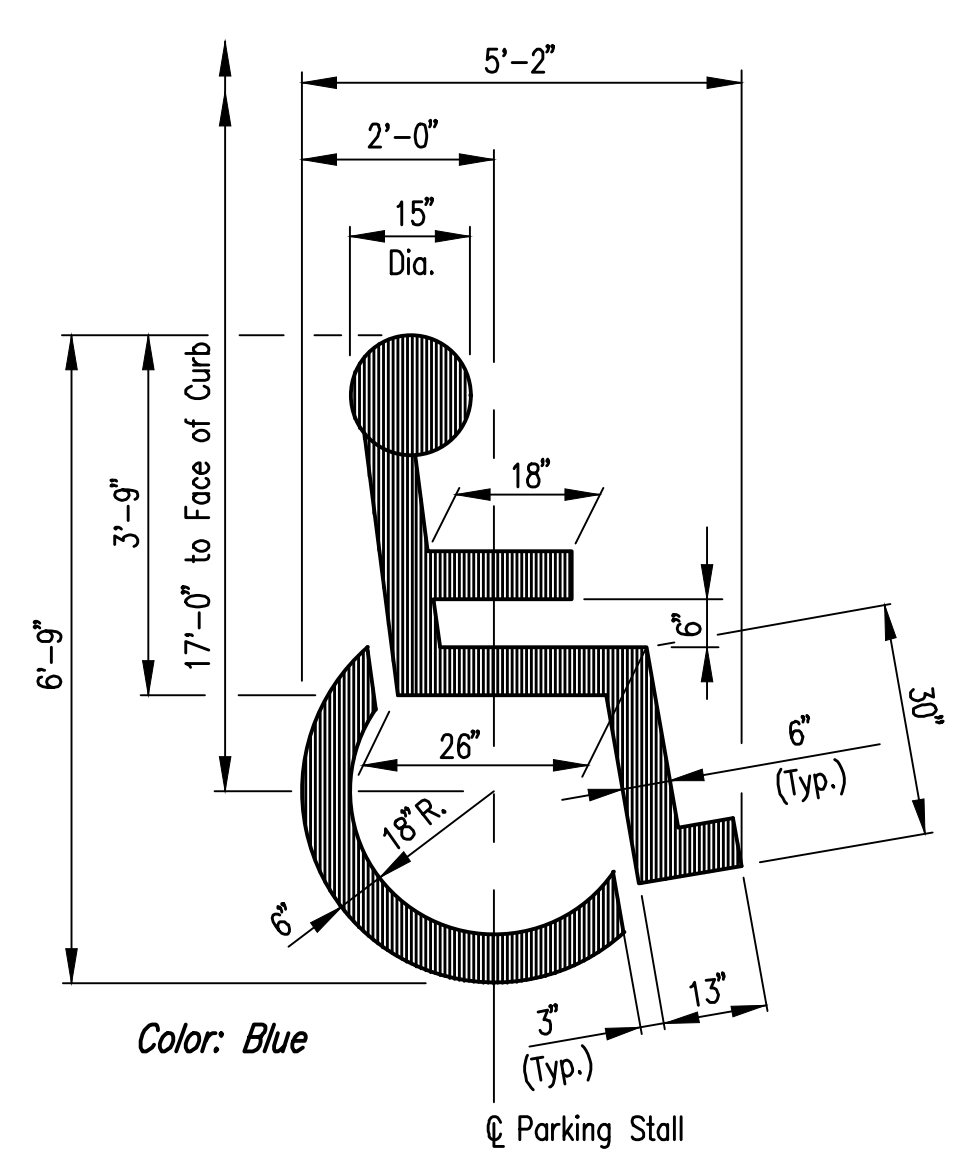
**CITY REVIEW COMMENTS FOR CONSTRUCTION**  
 30 MARCH 20

**C-108(P2)**

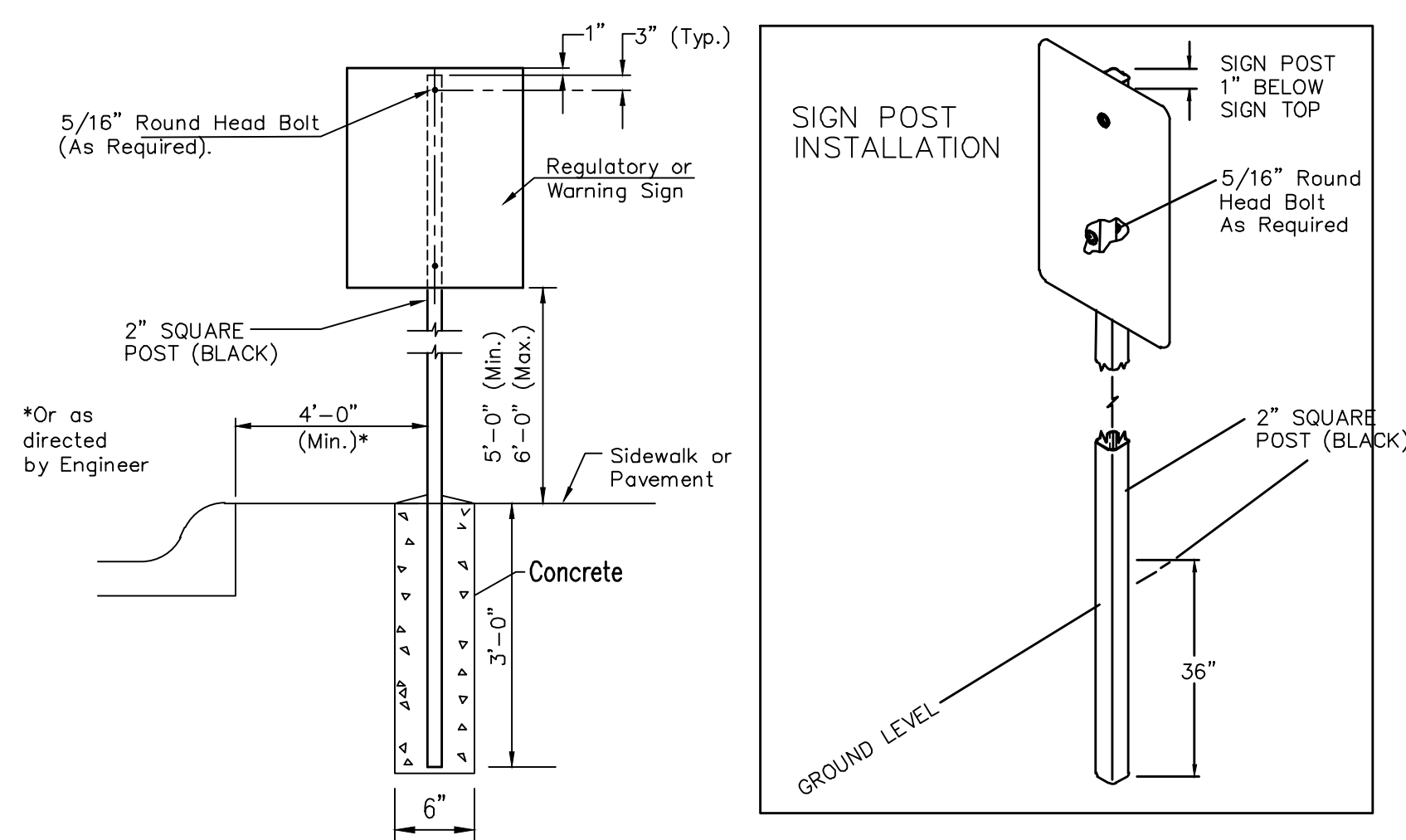
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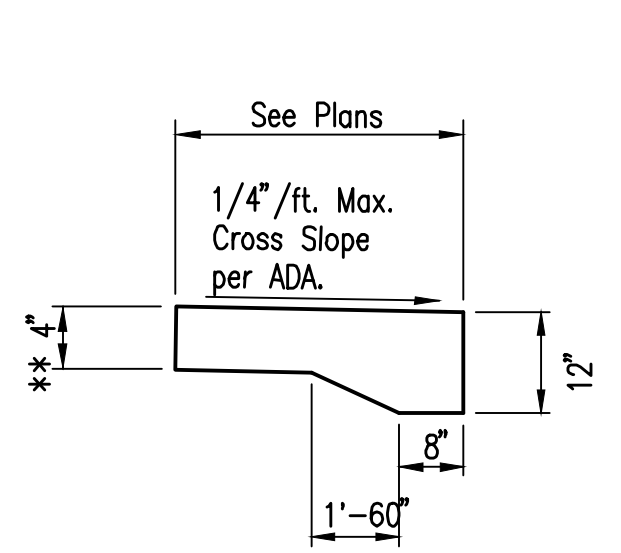
**PAINT STRIPE AND STRIPING CROSS HATCH DETAIL**



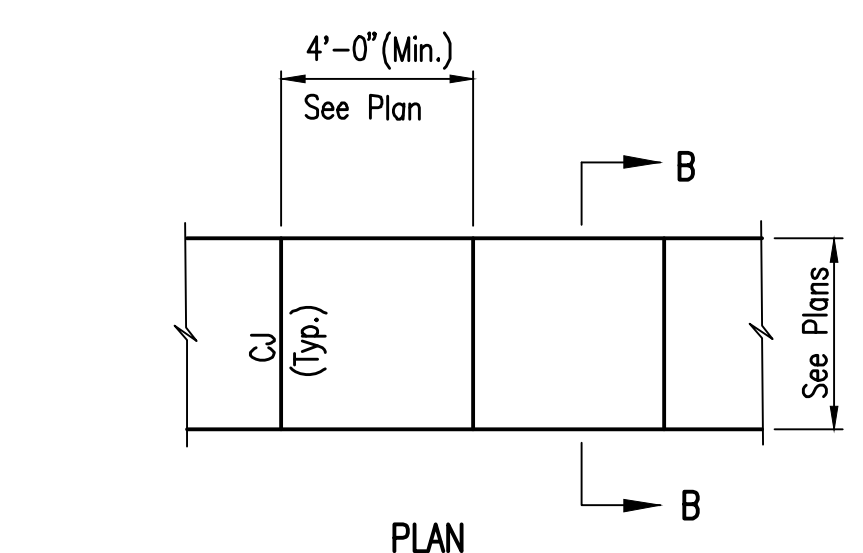
**SYMBOL OF ACCESSIBILITY**



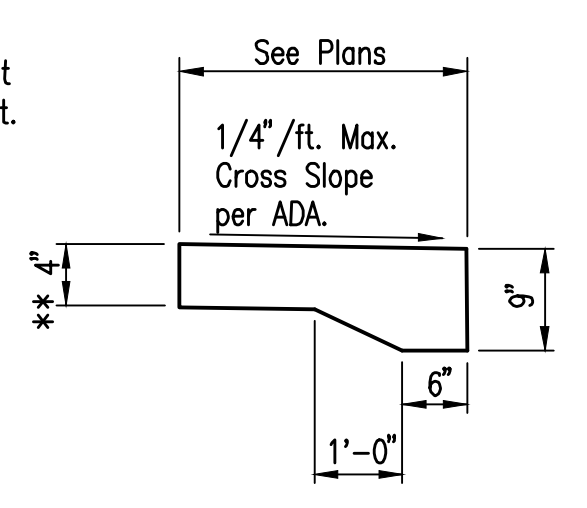
**ADA SIGN MOUNTING INSTALLATION**



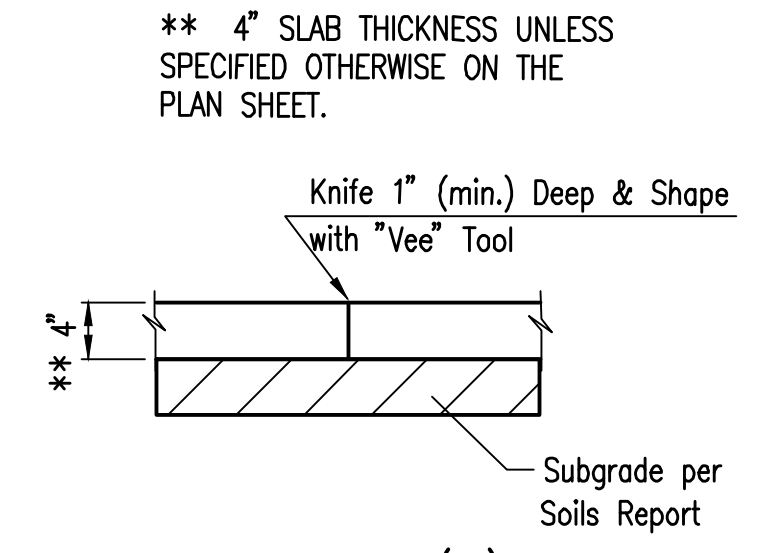
**SECTION B-B \*\*\***  
 NOTE: 12" Thickened edge only required at bridge abutment. Coordinate with abutment. Note walk to set on abutment wall



**PLAN**

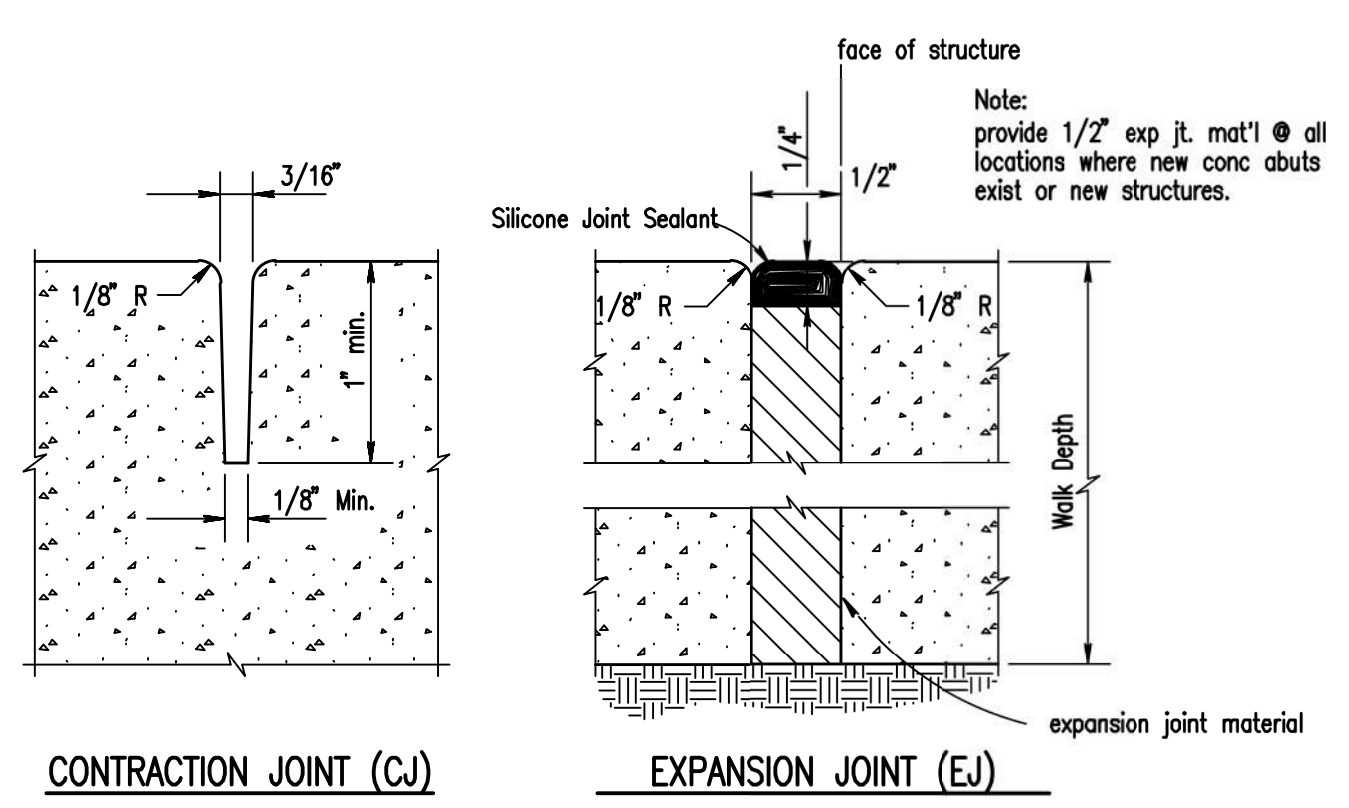


**SECTION B-B**  
 NOTE: Thickened edge only required at abutment to building or wall.



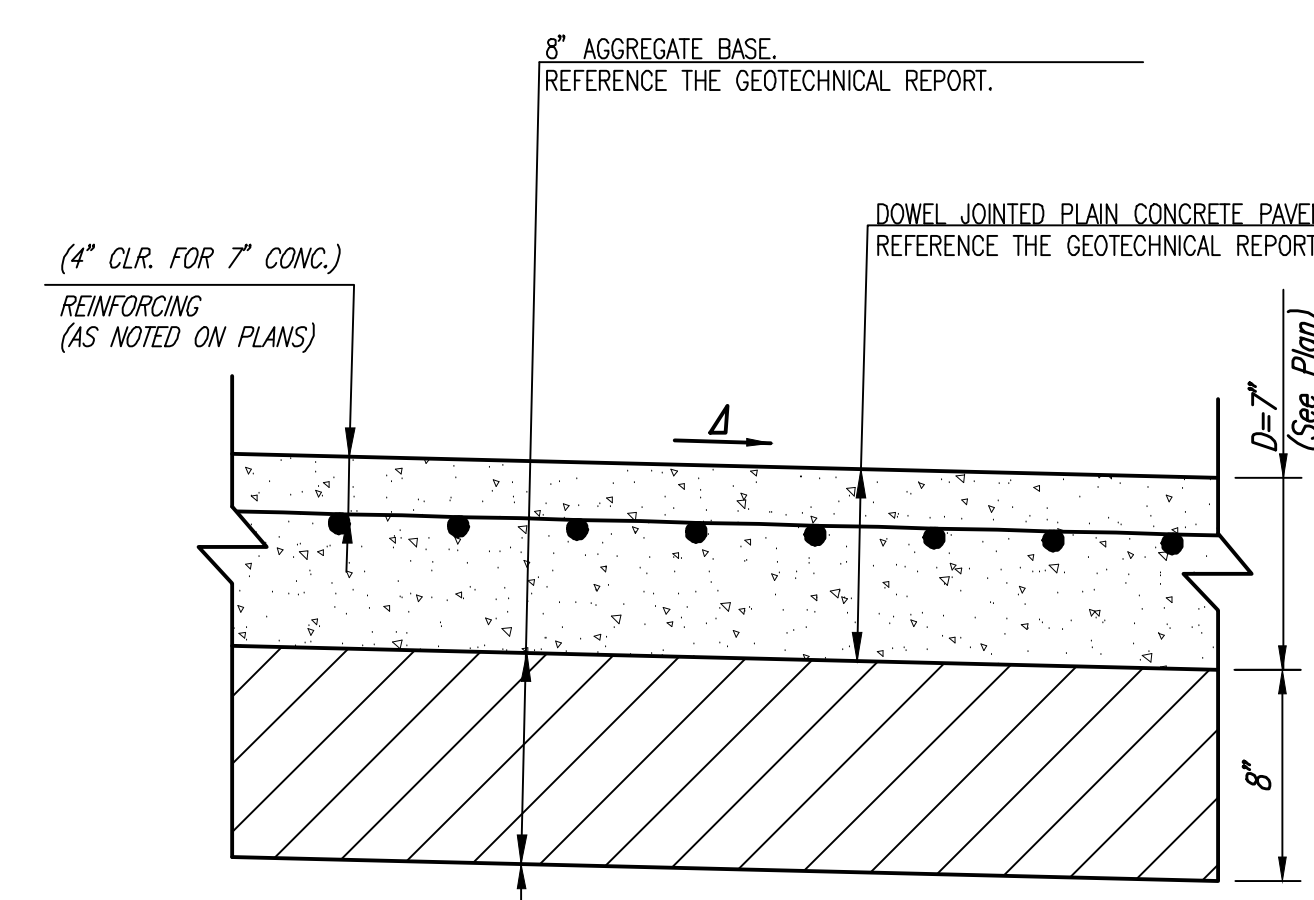
**CONTRACTION JOINT (Cj)**  
 Note: No sawn contraction joints will be allowed

**CONCRETE WALK DETAILS**



**CONTRACTION JOINT (Cj) EXPANSION JOINT (Ej)**

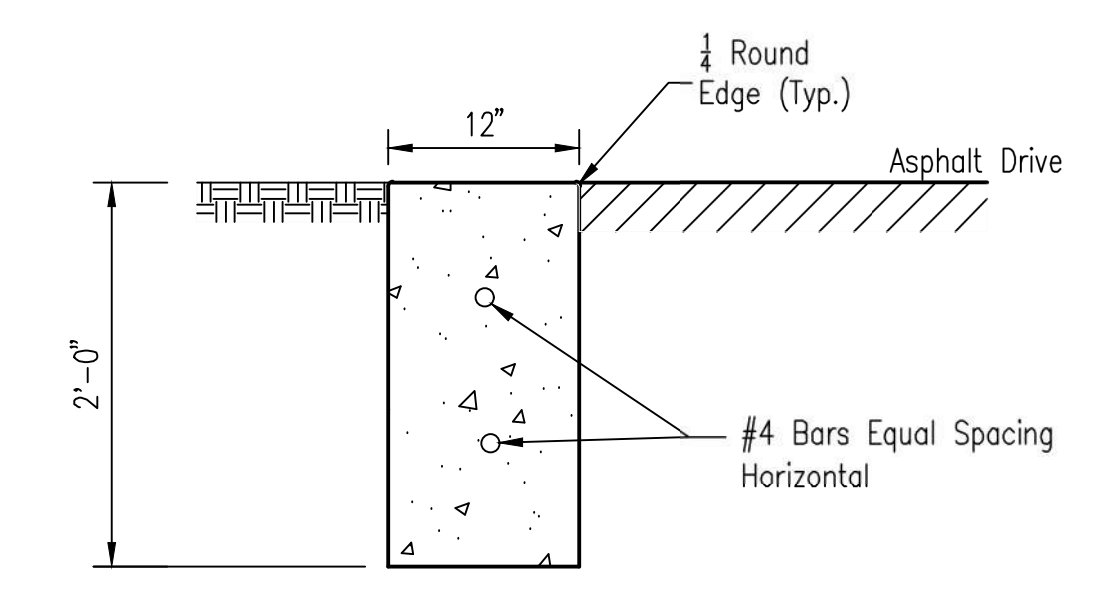
**CONCRETE WALK EXPANSION JOINT DETAILS**



- NOTES:**
1. STABILIZED SUBGRADE SHALL BE EXTENDED TO 1' BEYOND THE LIMITS OF ALL PAVING, EXCEPT WHERE ADJACENT TO EXISTING PAVING.
  2. PORTLAND CEMENT CONCRETE MEETS CITY OF WICHITA STANDARD SPECIFICATIONS FOR CONSTRUCTION.

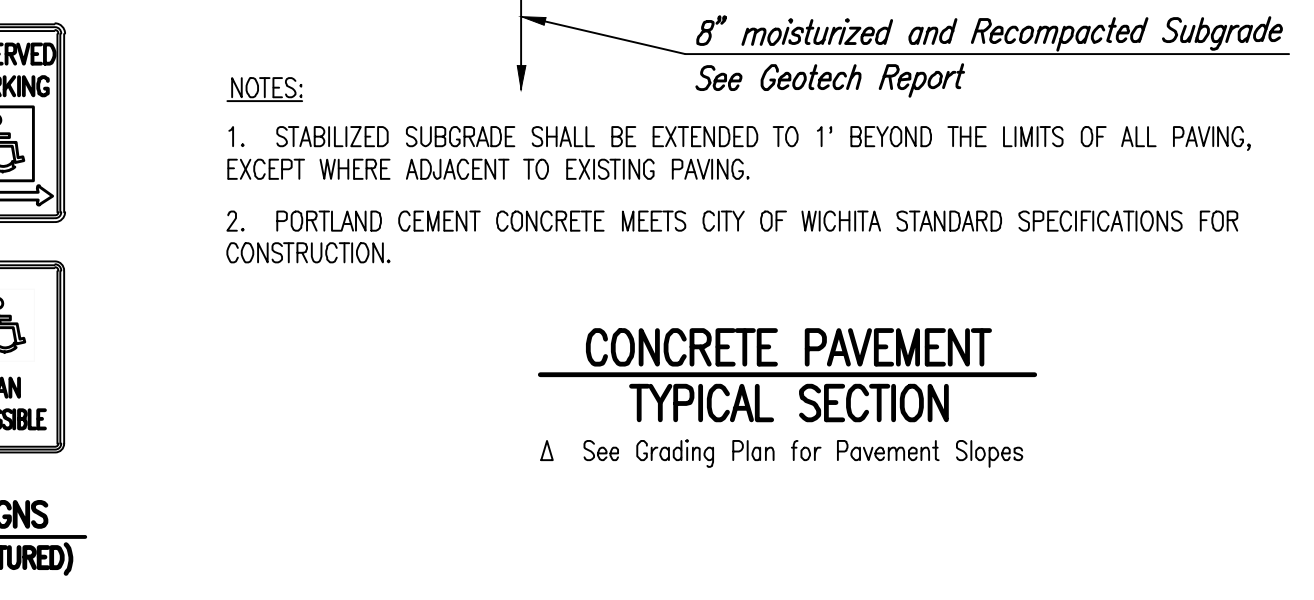
**CONCRETE PAVEMENT TYPICAL SECTION**

Δ See Grading Plan for Pavement Slopes

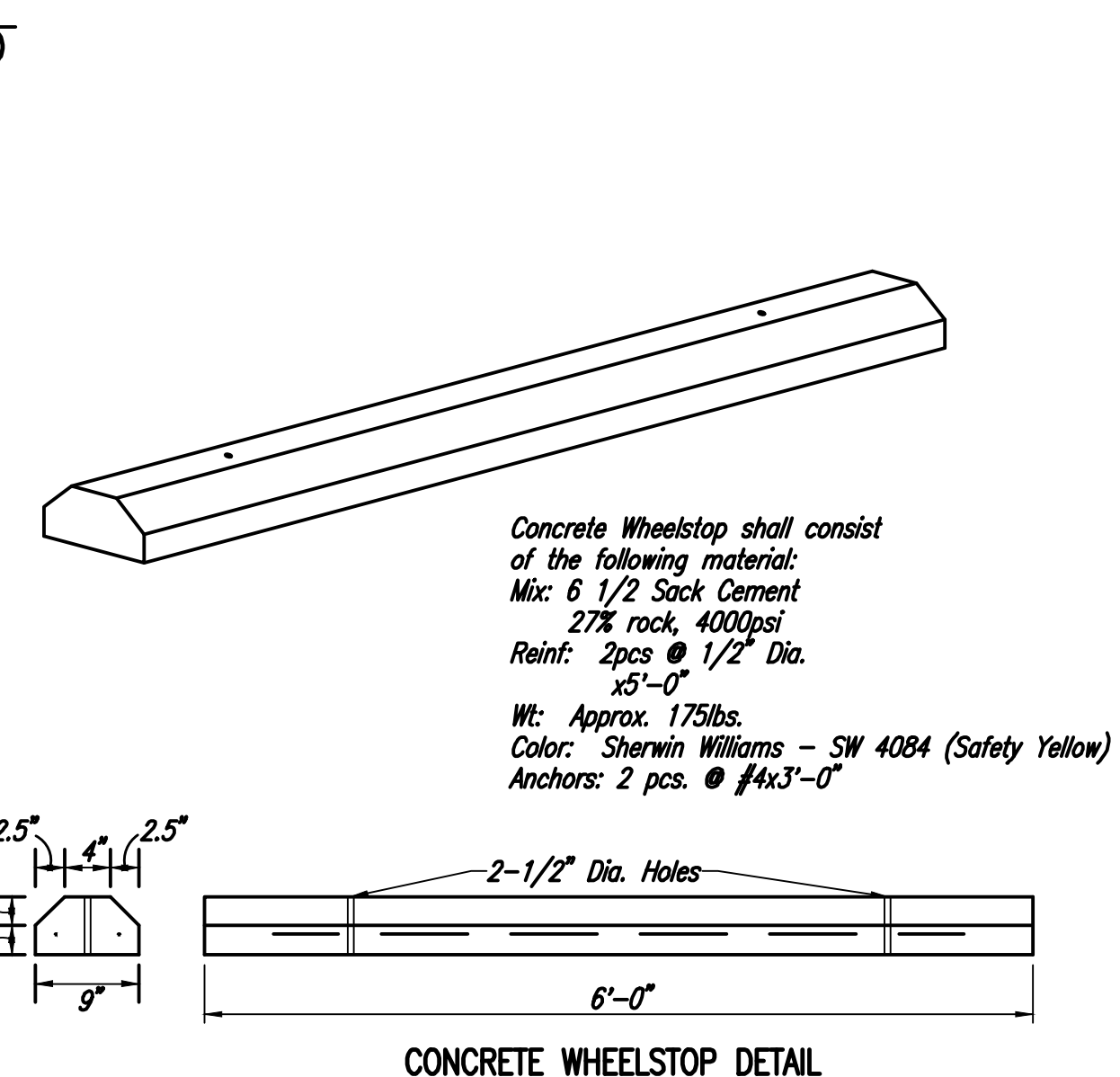


**12" CONCRETE RIBBON CURB DETAIL**

- NOTE:**
1. Construct Vertical Expansion Joint Every 100 L.F.
  2. Contractor Required to Form Top 6" of Concrete Curb

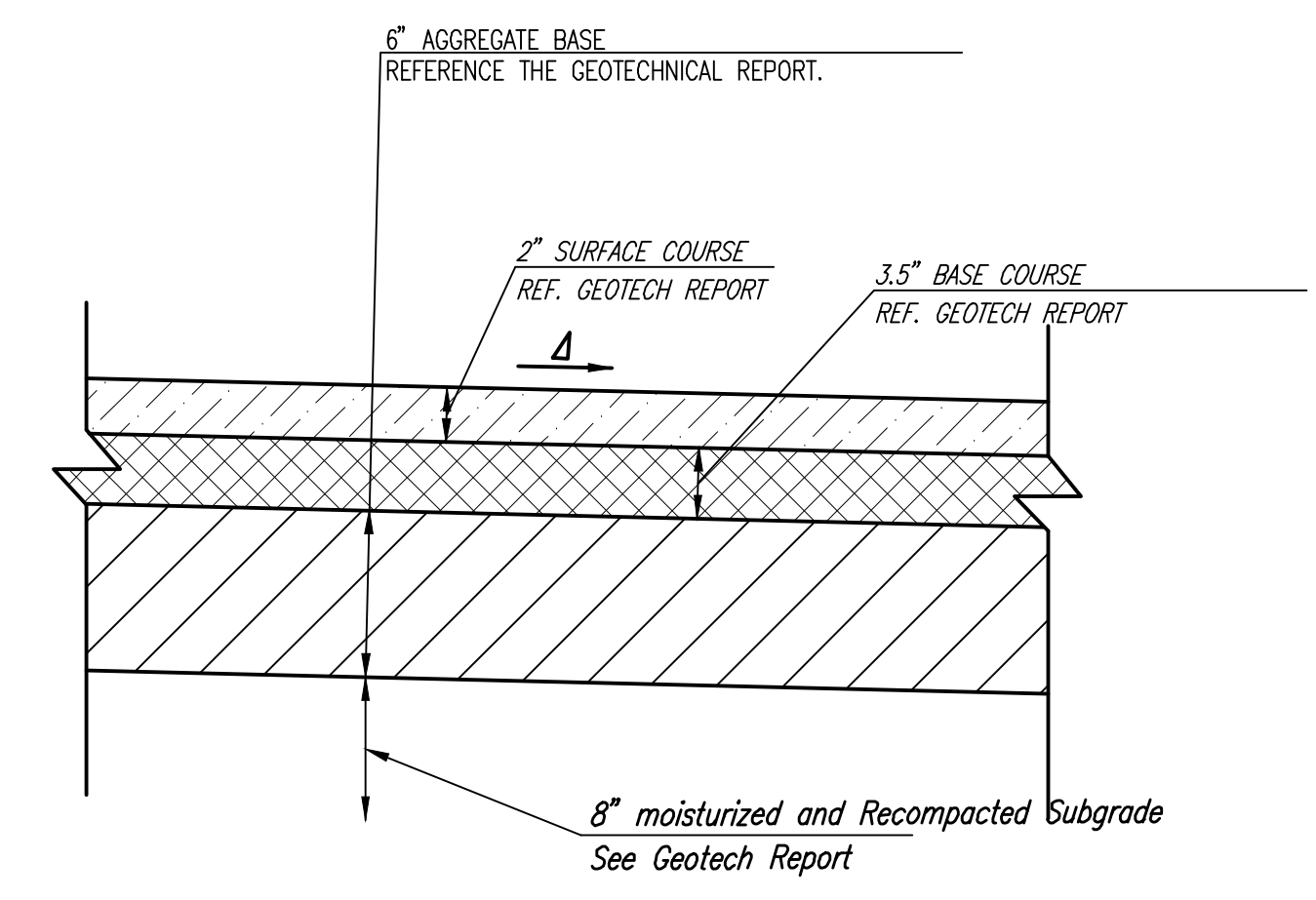


**SIGNS (PICTURED)**



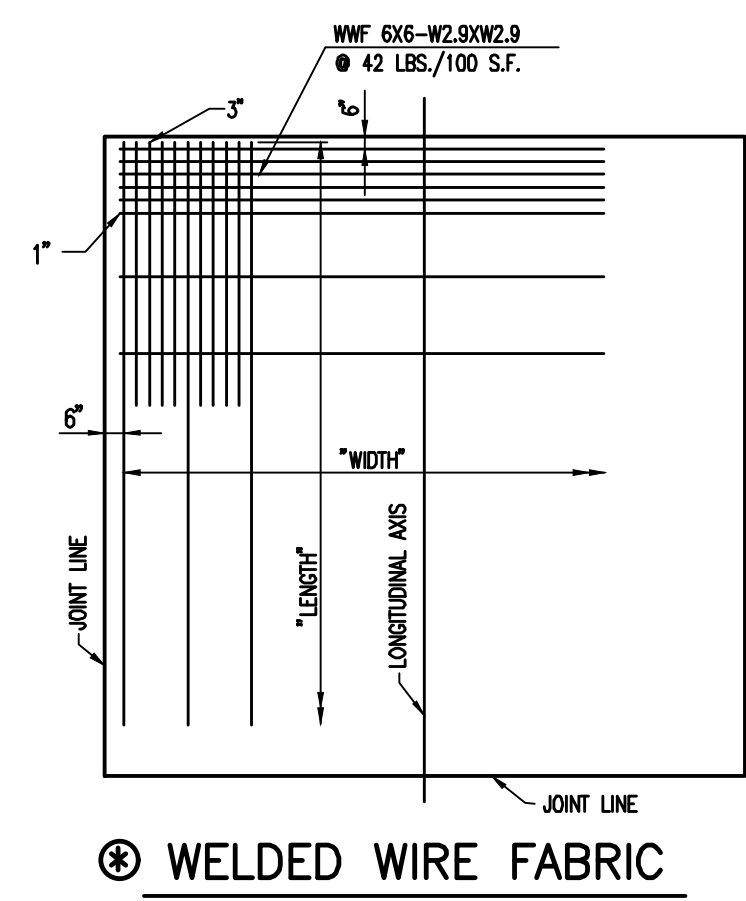
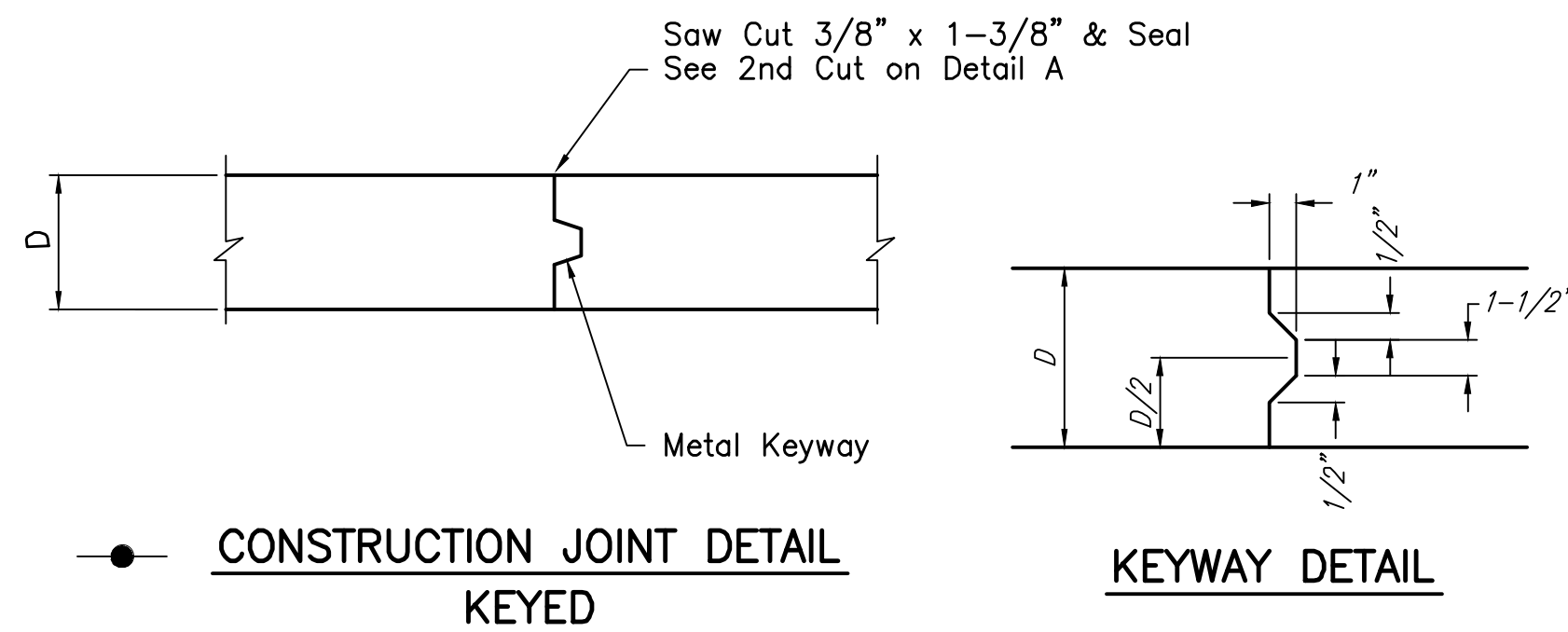
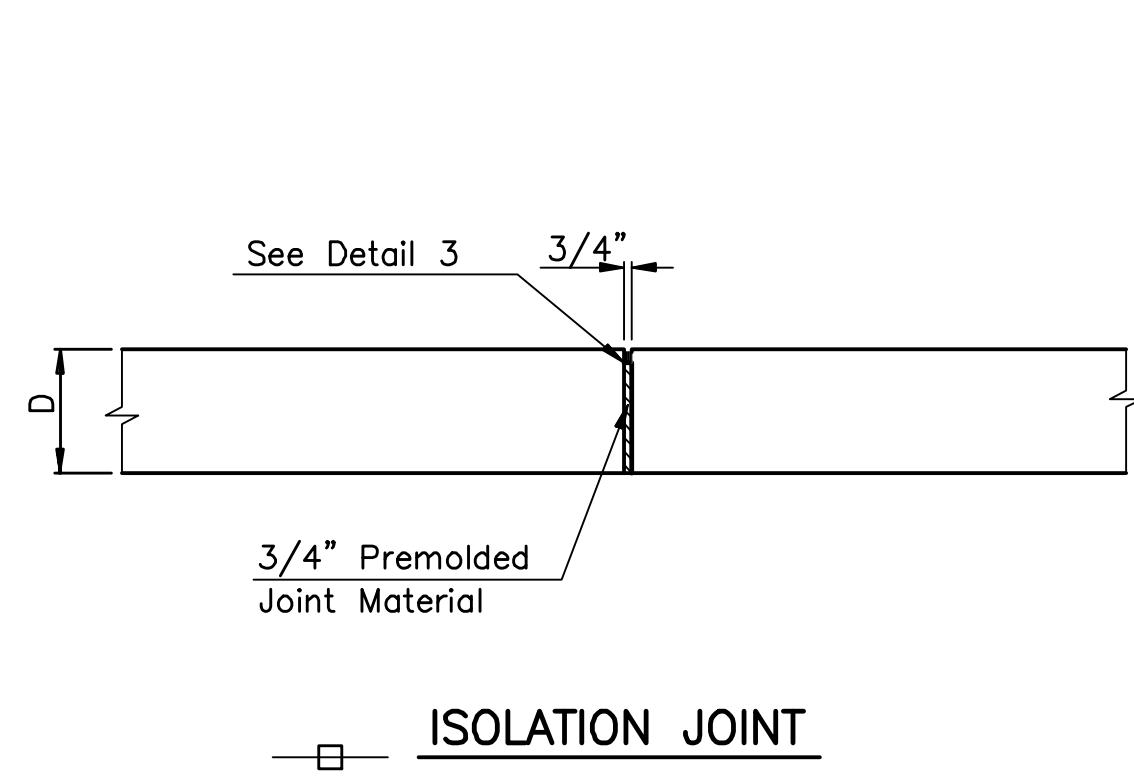
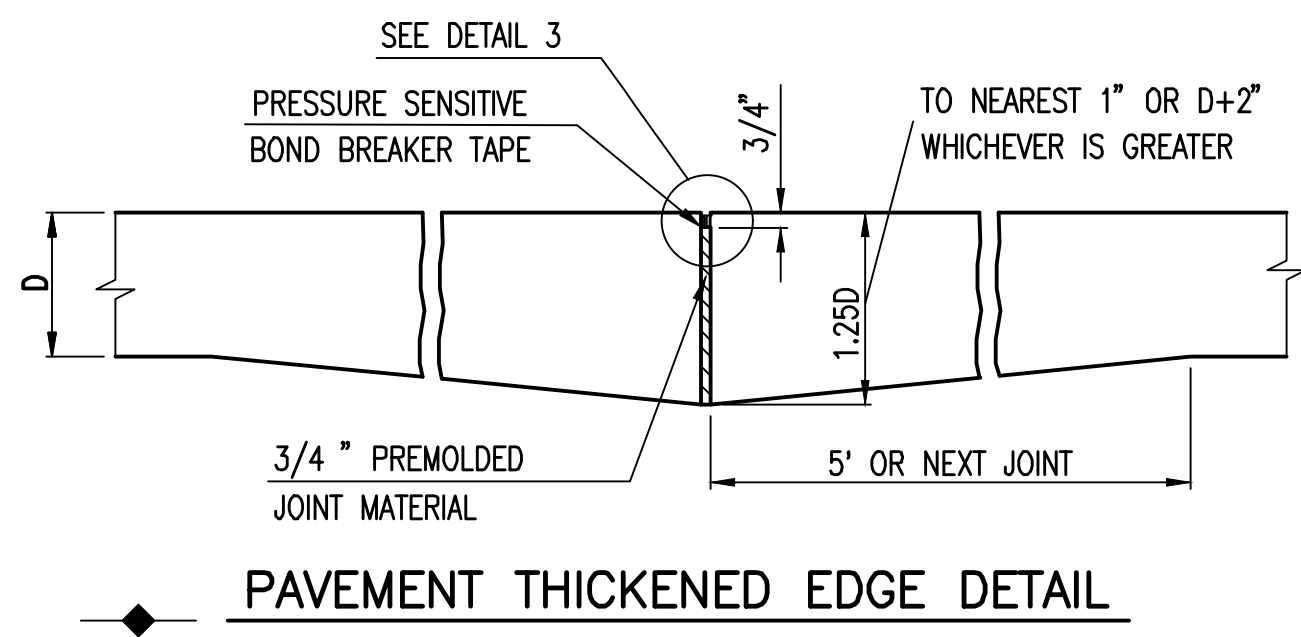
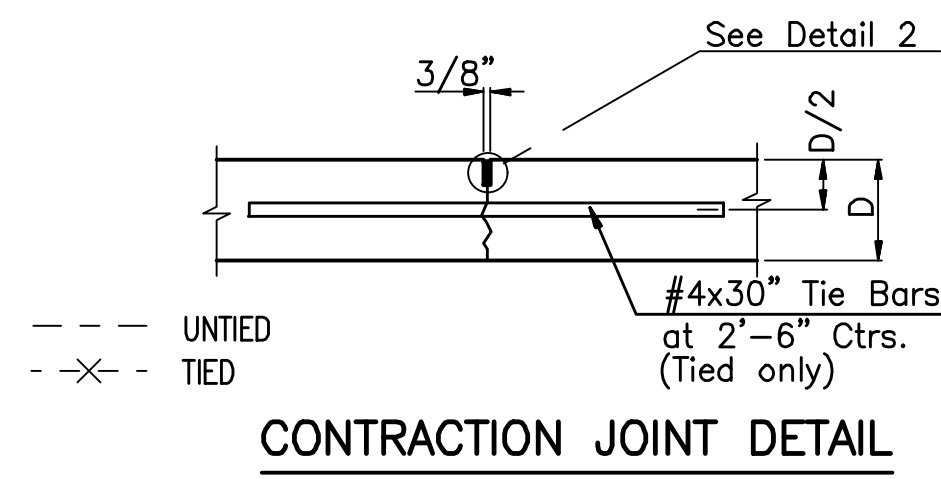
**CONCRETE WHEELSTOP DETAIL**

**1 PHASE 2 PAVING DETAILS**

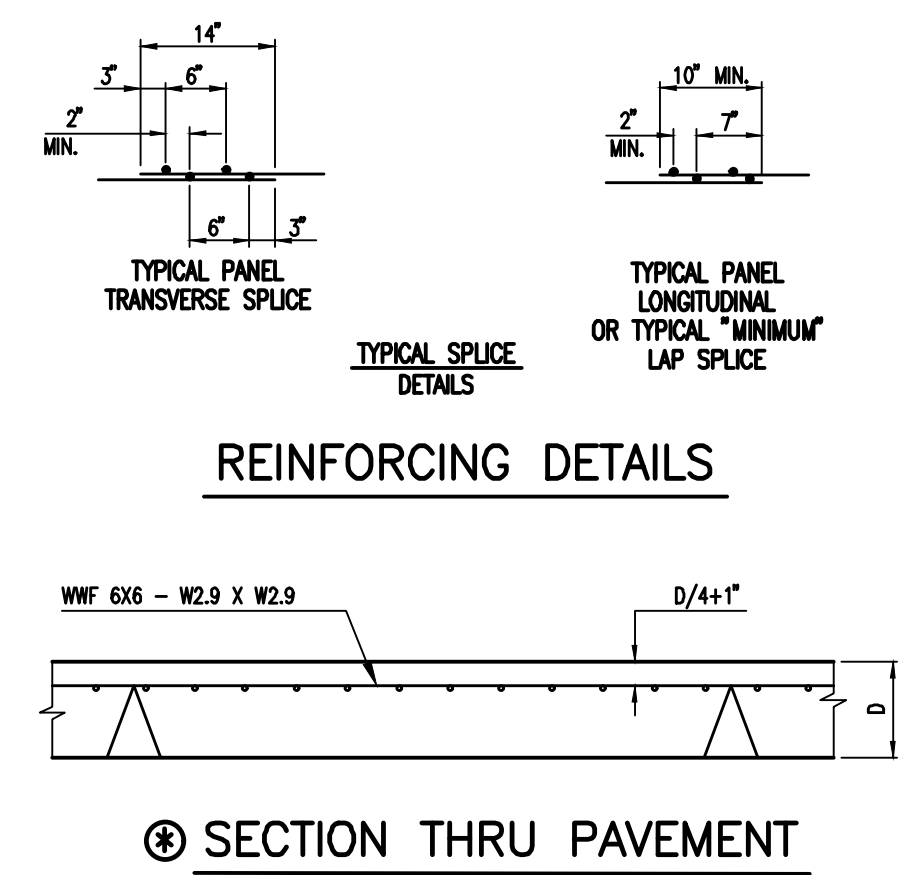


**5 1/2" ASPHALT PAVEMENT**

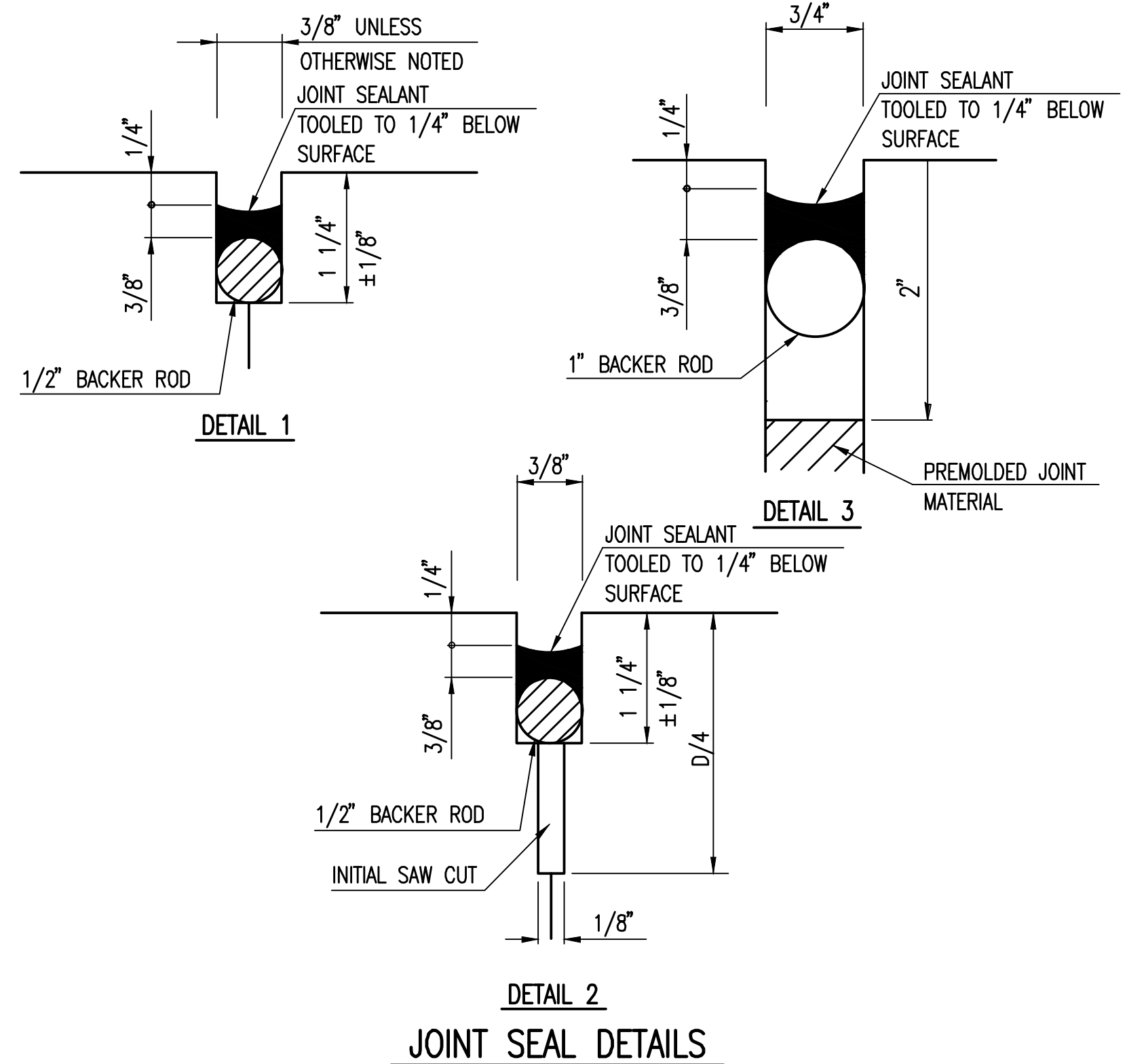
Δ See Grading Plan for Pavement Slopes



REINFORCING FABRIC SHALL BE FURNISHED IN FLAT SHEETS. THE CONTRACTOR MAY PROVIDE A DIFFERENT PATTERN OF FABRIC AS LONG AS A MINIMUM OF 0.254 SQ. IN./ FT. OF REINFORCING IS PROVIDED IN EACH DIRECTION. WELDED WIRE FABRIC SHALL BE CUT IN THE FIELD AS REQUIRED TO CONFORM TO THE SHAPE OF THE PANEL TO BE REINFORCED.

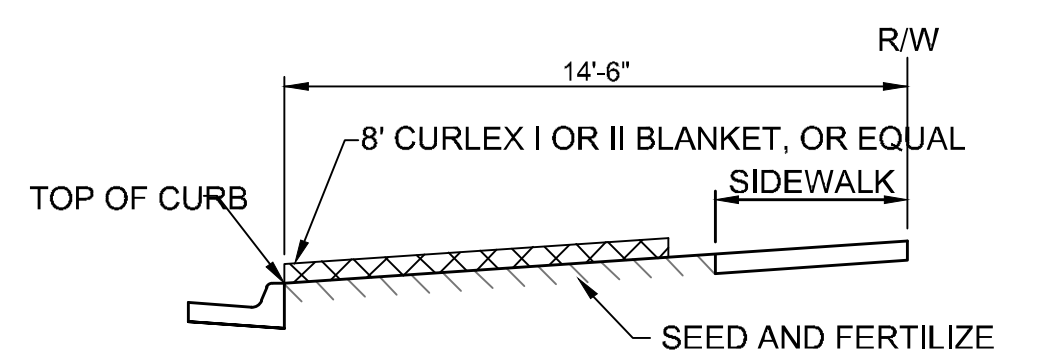


REINFORCING FOR OTHER THAN RECTANGULAR PANELS SHALL BE THE SAME AS DETAILED ABOVE. CUT TO THE APPROPRIATE SHAPE & OVERLAP SPLICE AS REQUIRED.

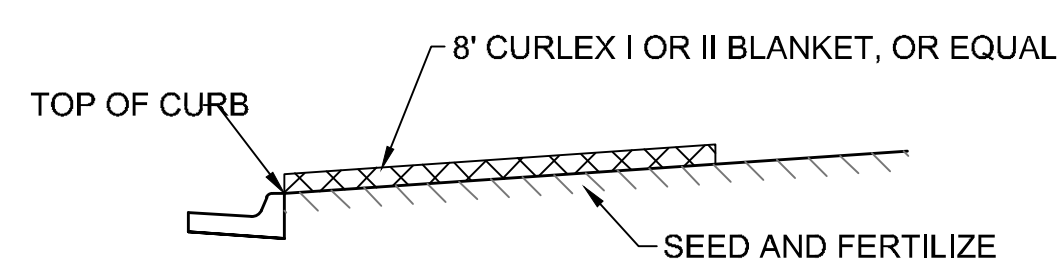


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**1 PHASE 2 MISCELLANEOUS PAVING DETAILS**

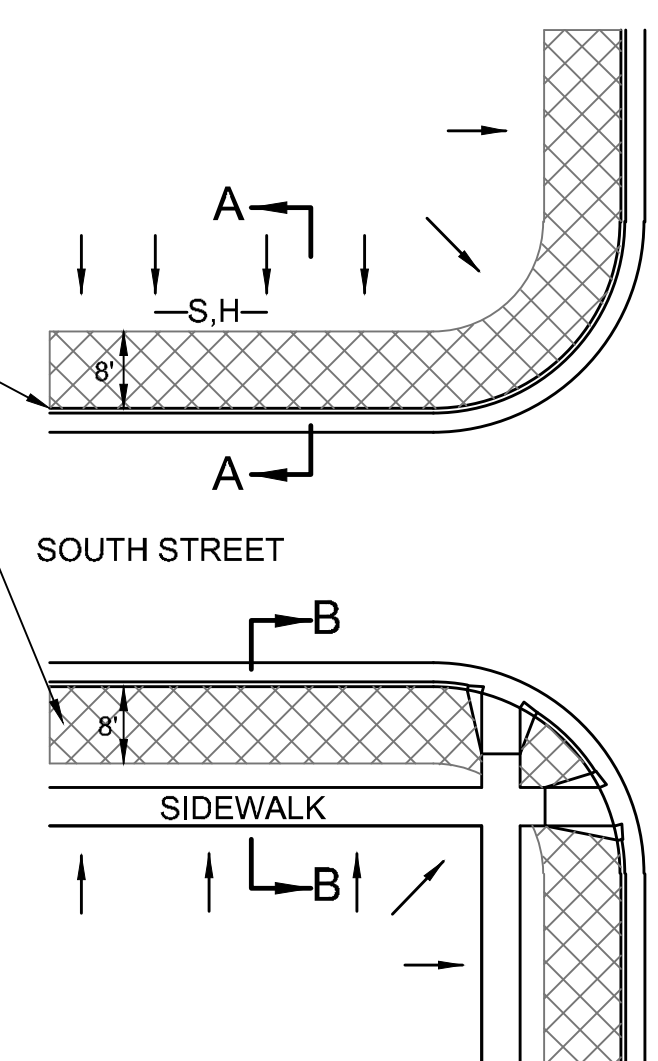


SECTION B-B



SECTION A-A

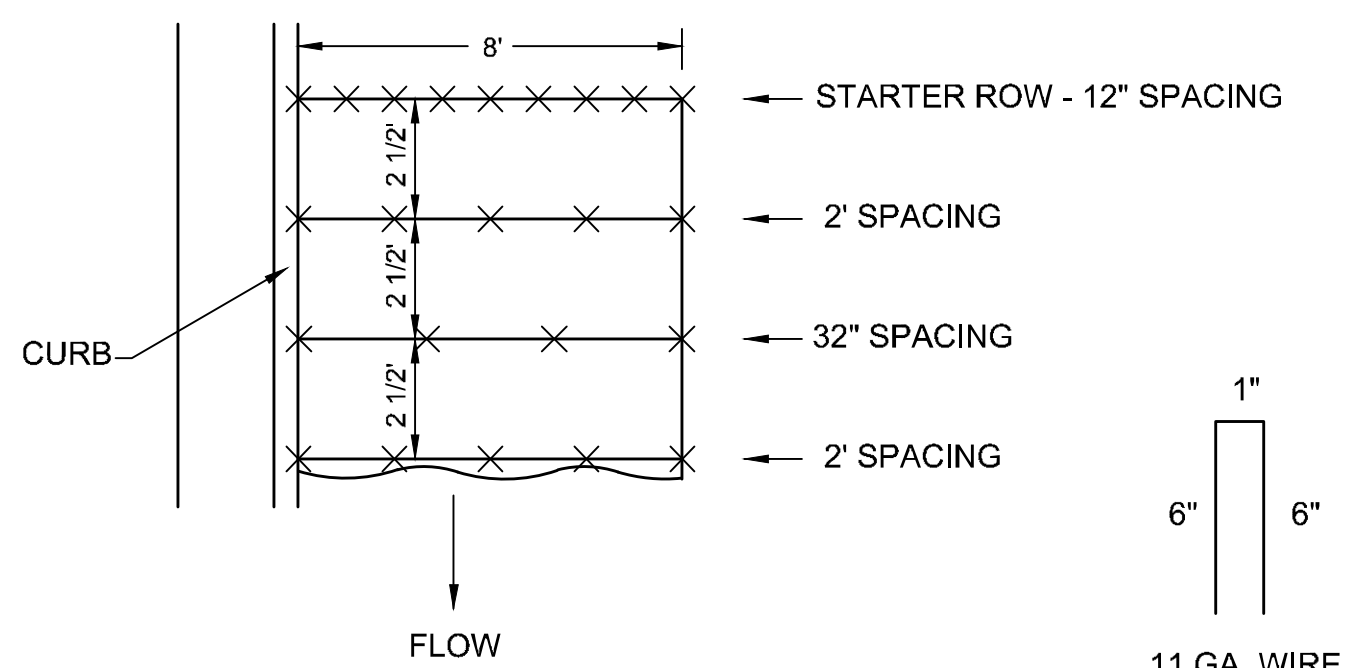
AS SPECIFIED, INSTALL 8' WIDE CURLEX I OR II EXCELSIOR BLANKET, OR EQUAL, OR BFM HYDRO-MULCH ON PREPARED SURFACE BACK OF CURB. EDGE OF BLANKET WILL BE AT BACK OF CURB. INSTALL PER MANUFACTURERS RECOMMENDATION, INCLUDING STAPLES. (SEE DETAIL BELOW)



NOTES:

- EXCELSIOR MAT OR BFM HYDRO-MULCH TO BE INSTALLED WHEN SOD IS NOT SPECIFIED ON PROJECT.
- EXCELSIOR MAT OR BFM HYDRO-MULCH TO BE INSTALLED OVER SEED AND FERTILIZER.
- AFTER INSTALLATION OF EXCELSIOR MAT OR BFM HYDRO-MULCH, AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB AND INTO THE GUTTER, SUPPLEMENTAL EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS REQUIRED.

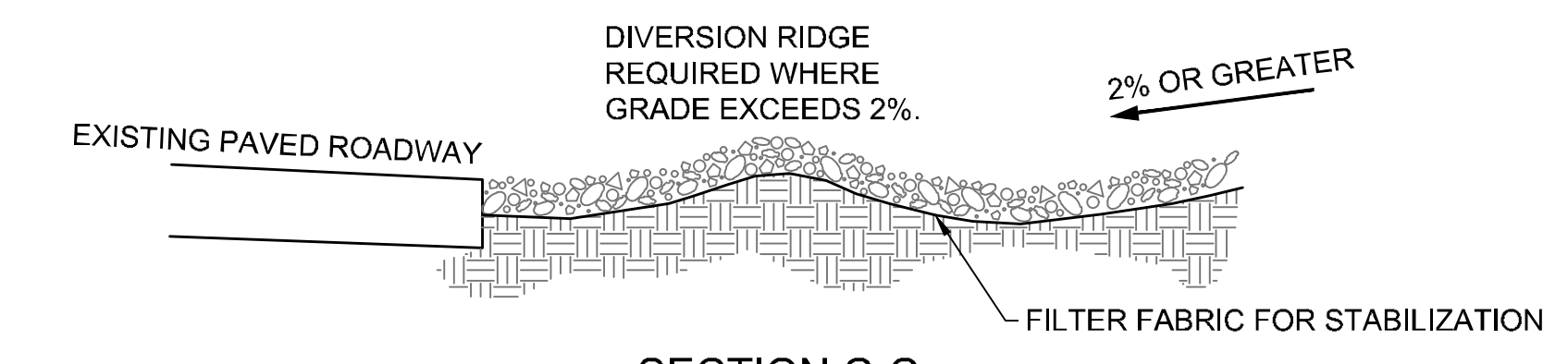
BACK OF CURB PROTECTION DETAIL



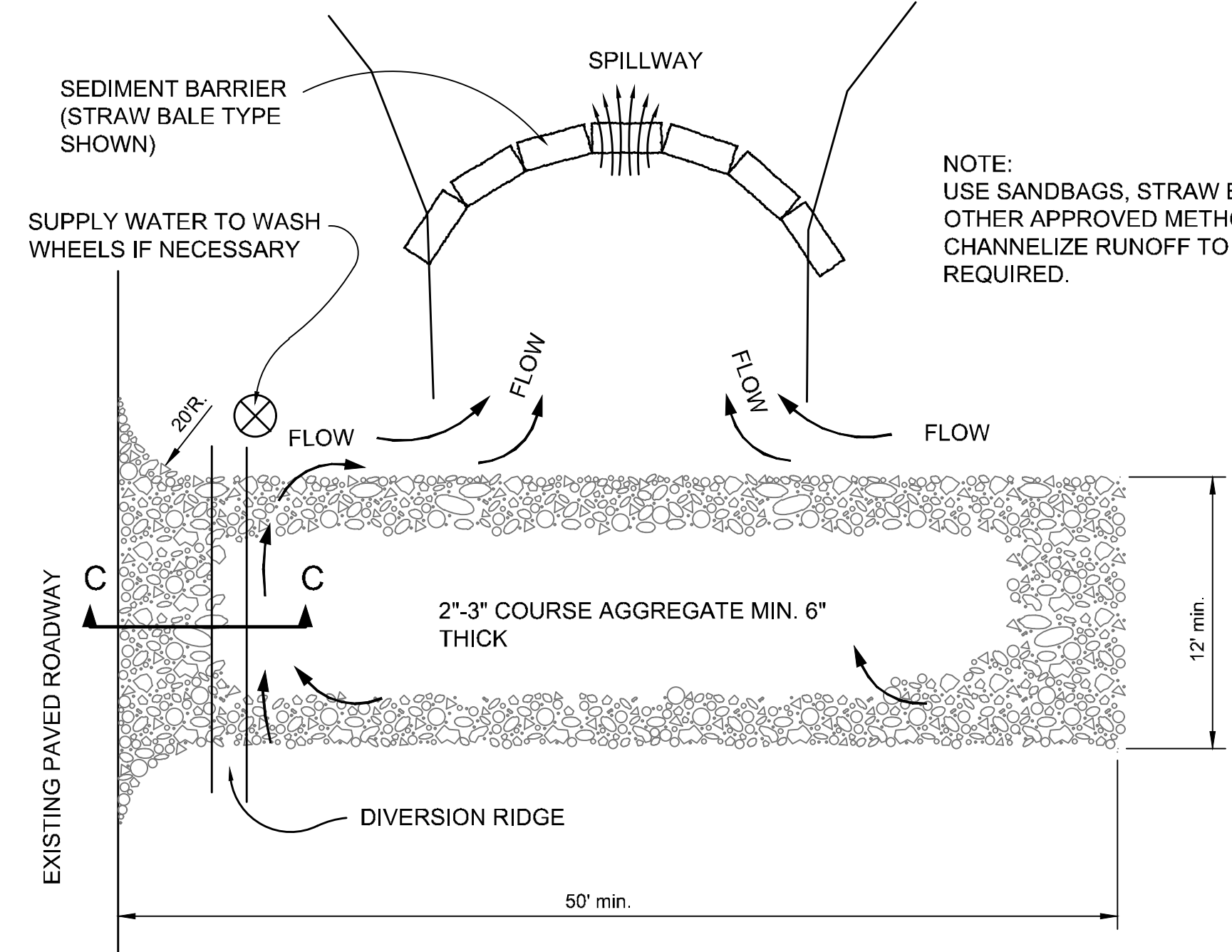
STAPLE PATTERN

NOTE: USE 6" SEAM OVERLAP

DETAILS FOR CURLEX I OR II BLANKETS



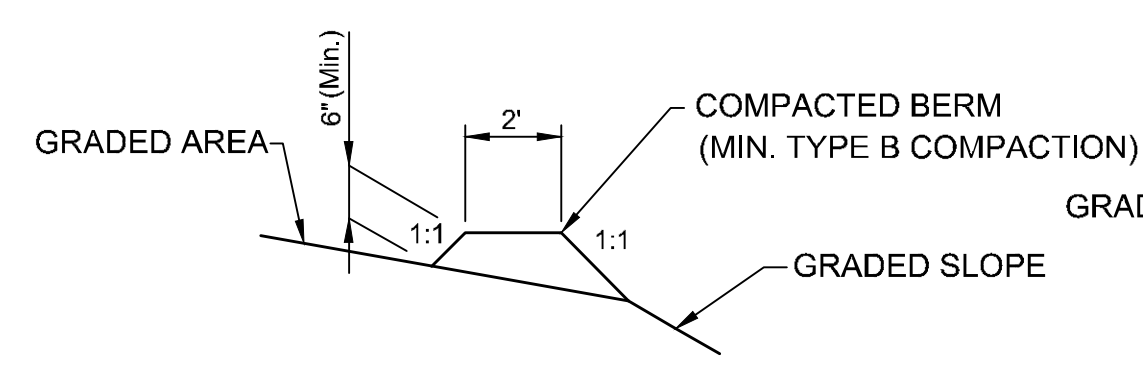
SECTION C-C



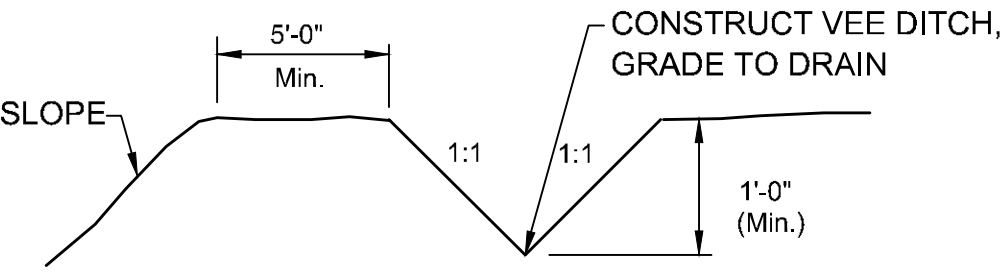
STABILIZED CONSTRUCTION ENTRANCE

NOTES:

- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN, AS SHOWN ABOVE.
- DRIVE ENTRANCES ONTO RESIDENTIAL LOTS WILL NOT BE REQUIRED TO HAVE THE SEDIMENT BARRIER SHOWN, BUT WHEEL WASHING MAY BE REQUIRED IF STABILIZED ENTRANCE IS NOT SUFFICIENT TO KEEP MUD FROM BEING TRACKED ONTO ADJACENT STREET. ENTRANCE SHALL EXTEND FROM BACK OF CURB TO DWELLING.



BERM DETAIL



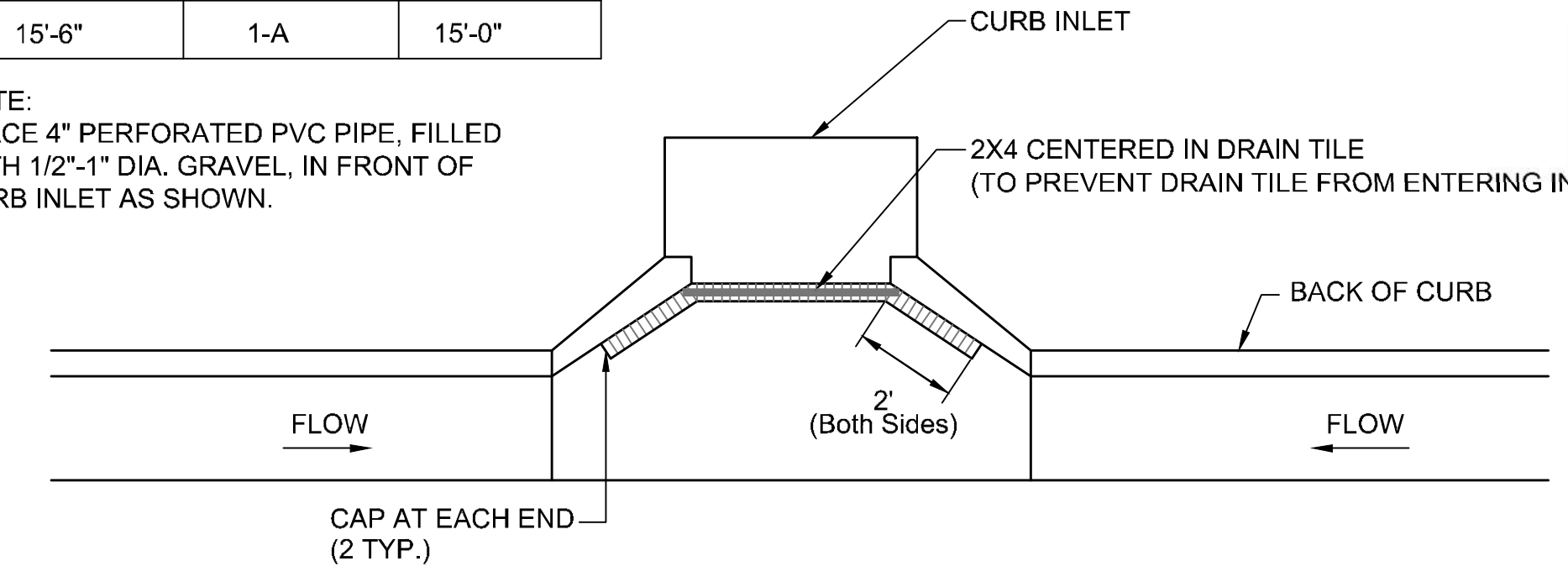
INTERCEPT DITCH DETAIL

TEMPORARY EROSION CONTROL DETAILS FOR SLOPE PROTECTION

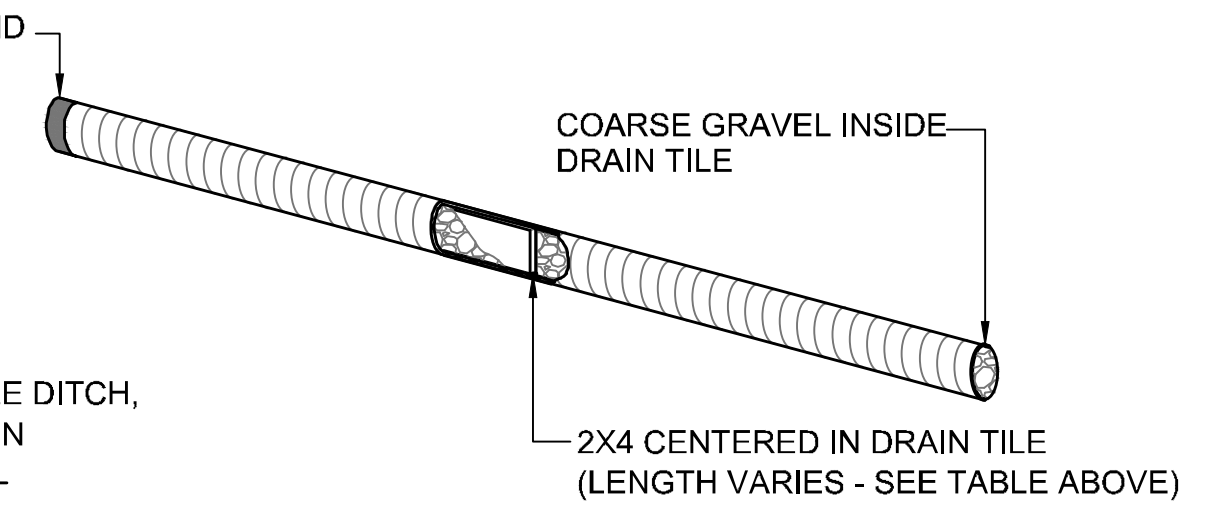
NOTE: THE ENGINEER MAY DETERMINE THAT THE HEIGHT OF BERM OR DEPTH OF DITCH SHOULD BE INCREASED OVER THAT SHOWN IF DRAINAGE CONDITIONS ARE

2X4 LENGTH	INLET TYPE	INLET OPENING
5'-6"	1-A	5'-0"
10'-6"	1-A	10'-0"
15'-6"	1-A	15'-0"

NOTE: PLACE 4" PERFORATED PVC PIPE, FILLED WITH 1/2"-1" DIA. GRAVEL, IN FRONT OF CURB INLET AS SHOWN.



CURB INLET PROTECTION 4" PERFORATED PIPE W/ GRAVEL



GENERAL EROSION CONTROL NOTES

- SEDIMENT BARRIERS SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. ADDITIONAL SEDIMENT BARRIERS WILL BE INSTALLED AT LOCATIONS AS DIRECTED BY THE ENGINEER WITH NO ADJUSTMENT IN UNIT PRICE.
- SEDIMENT BARRIERS SHALL BE ERECTED PRIOR TO THE COMMENCEMENT OF EARTHWORK OPERATIONS IN A GIVEN BASIN. REMOVAL AND DISPOSAL OF ACCUMULATED SILT AND DEBRIS AND/OR REMOVAL AND RECONSTRUCTION OF SEDIMENT BARRIERS WILL BE PERFORMED THROUGHOUT THE PROJECT LIFE WHEN DEBRIS REACHES ONE-THIRD THE FENCE HEIGHT OR AS DEEMED NECESSARY BY THE ENGINEER. SEDIMENT BARRIERS AND ACCUMULATED DEBRIS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AFTER TURF COVER HAS BEEN ESTABLISHED, UNLESS OTHER ARRANGEMENTS HAVE BEEN AGREED TO.
- TEMPORARY EROSION CONTROL BERMS AND/OR INTERCEPT DITCHES SHALL BE CONSTRUCTED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. ADDITIONAL BERMS AND/OR DITCHES MAY BE REQUIRED AT NO ADJUSTMENT IN UNIT PRICE(S).

WHERE TEMPORARY EROSION CONTROL BERMS AND/OR INTERCEPT DITCHES ARE USED, ALL AREAS WHERE FLOW IS CONCENTRATED SHALL BE PROTECTED BY SILTATION BARRIERS PRIOR TO DISCHARGING INTO ANY DITCH, STORM SEWER, OR WATERCOURSE.

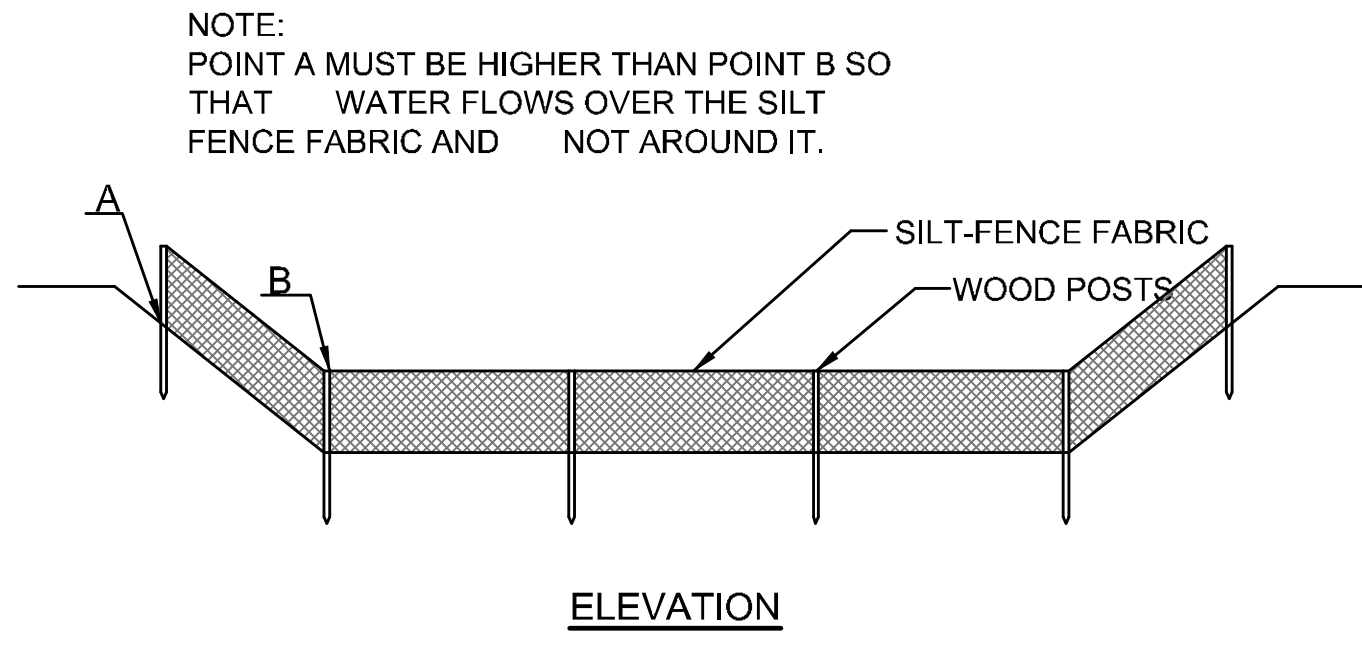
RECONSTRUCTION OF EROSION CONTROL MEASURES WHICH ARE DESTROYED BY WIND, FLOOD, FIRE, OR BY THE ACTIONS OF THE CONTRACTOR OR OTHERS SHALL BE PERFORMED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST. WHERE ADJUSTMENTS IN QUANTITIES ARE REQUIRED BY FIELD CONDITIONS, THERE SHALL BE NO ADJUSTMENT IN UNIT PRICE.

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CITY REVIEW COMMENTS FOR CONSTRUCTION  
 30 MARCH 20

C-503(P2)



**SILT FENCE DITCH CHECKS  
(STREAM PROTECTION)**

**MATERIAL SPECIFICATION:**

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

**PLACEMENT:**

PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED. WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK, NOT OVER IT. SILT FENCE DITCH CHECKS OFTEN FAIL WHEN OVERTOPPED. SILT FENCE DITCH CHECKS SHOULD BE PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH. THE SILT FENCE SHOULD EXTEND FAR ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE TOP OF THE LOW POINT OF THE FENCE. THIS PREVENTS WATER FROM FLOWING AROUND THE CHECK. SILT FENCE DITCH CHECKS SHOULD NOT BE PLACED IN DITCHES WHERE HIGH FLOWS ARE EXPECTED. ROCK CHECKS SHOULD BE USED INSTEAD. SILT FENCE SHOULD BE PLACED IN DITCHES WITH SLOPES OF 6% OR LESS. FOR SLOPES STEEPER THAN 6%, ROCK CHECKS SHOULD BE USED.

THE FOLLOWING TABLE PROVIDES CHECK SPACING FOR A GIVEN DITCH GRADE:

DITCH CHECK GRADE (%)	DITCH CHECK SPACING (FEET)
0.5	200
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	30

**PROPER INSTALLATION METHOD:**

EXCAVATE A TRENCH PERPENDICULAR TO THE DITCH FLOWLINE THAT IS AT LEAST 12" DEEP BY 6" WIDE. EXTEND THE TRENCH IN A STRAIGHT LINE ALONG THE ENTIRE LENGTH OF THE PROPOSED DITCH CHECK. PLACE THE SOIL ON THE UPSLOPE SIDE OF THE TRENCH FOR LATER USE. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSLOPE SIDE OF THE TRENCH. PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSLOPE EDGE OF THE TRENCH. LINE TWO SIDES OF THE TRENCH WITH THE FABRIC AS SHOWN ON DETAIL. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED. LAY THE EXPOSED SILT FENCE ON THE UPSLOPE SIDE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSTREAM OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 24". PLACE POSTS NO MORE THAN 4' APART. ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

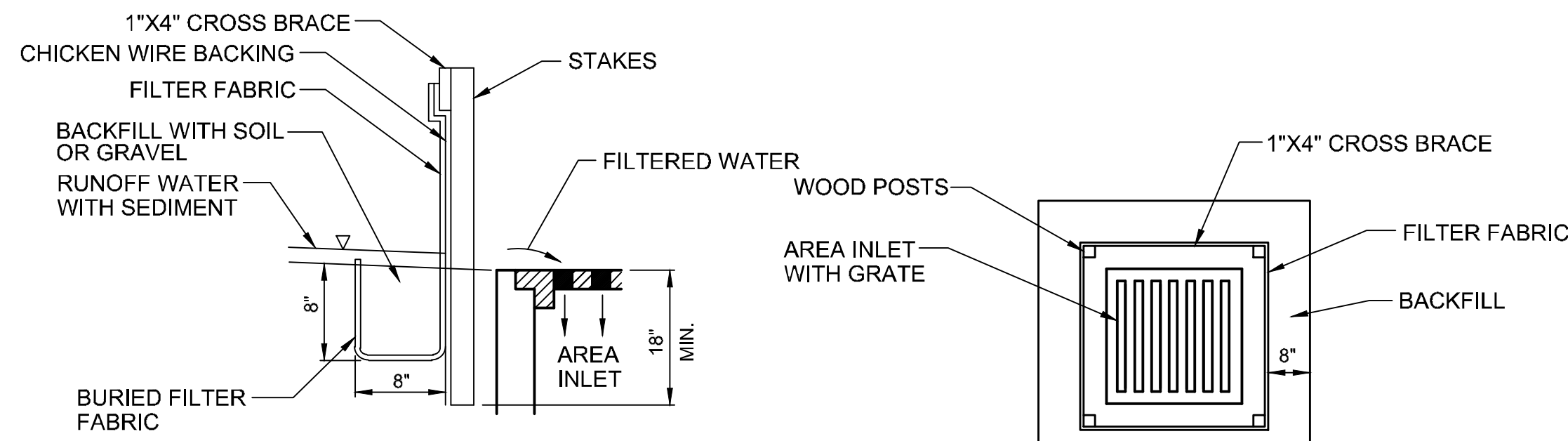
**LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:**

WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK-NOT OVER IT. PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED. SILT FENCE INSTALLATIONS QUICKLY DETERIORATE WHEN WATER OVERTOPS THEM. DO NOT PLACE SILT FENCE POSTS ON THE UPSLOPE SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT PLACE A SILT FENCE DITCH CHECK DIRECTLY IN FRONT OF A CULVERT OUTLET. IT WILL NOT STAND UP TO THE CONCENTRATED FLOW. DO NOT PLACE SILT FENCE DITCH CHECKS IN DITCHES THAT WILL LIKELY EXPERIENCE HIGH FLOWS. THEY WILL NOT STAND UP TO CONCENTRATED FLOW. FOLLOW PRESCRIBED DITCH CHECK SPACING GUIDELINES. IF SPACING GUIDELINES ARE EXCEEDED, EROSION WILL OCCUR BETWEEN THE DITCH CHECKS. DO NOT ALLOW WATER TO FLOW AROUND THE DITCH CHECK. MAKE SURE THAT THE DITCH CHECK IS LONG ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE LOW POINT ON THE TOP OF THE FENCE. DO NOT PLACE SILT FENCE DITCH CHECKS IN CHANNELS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE CHECK IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT.

**INSPECTION AND MAINTENANCE:**

SILT FENCE DITCH CHECKS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

- DOES WATER FLOW AROUND THE DITCH CHECK?
- DOES WATER FLOW UNDER THE DITCH CHECK?
- DOES THE SILT FENCE SAG EXCESSIVELY?
- HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE DITCH CHECK?



**SILT FENCE BARRIERS FOR AREA INLETS  
(INLET PROTECTION)**

**MATERIAL SPECIFICATION:**

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE WIRE OR POLYMERIC MESH BACKING USED TO HELP SUPPORT THE SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. THE MATERIAL USED TO FRAME THE TOPS OF THE POSTS SHOULD BE 1" BY 4" BOARDS. SILT FENCE FABRIC AND SUPPORT BACKING SHOULD BE ATTACHED TO THE WOODEN POSTS AND FRAME WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

**PLACEMENT:**

PLACE A SILT FENCE DROP INLET BARRIER IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED. WATER SHOULD FLOW THROUGH SILT FENCE, NOT OVER IT. SILT FENCE BARRIERS FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED. WHEN USED AS A BARRIER FOR AREA INLETS, SILT FENCE FABRIC AND POSTS MUST BE SUPPORTED AT THE TOP BY A WOODEN FRAME. WHEN A SILT FENCE BARRIER FOR AREA INLETS IS LOCATED NEAR AN INLET THAT HAS STEEP APPROACH SLOPES, THE STORAGE CAPACITY BEHIND THE BARRIER IS DRASTICALLY REDUCED. TIMELY REMOVAL OF SEDIMENT MUST OCCUR FOR A BARRIER TO OPERATE PROPERLY IN THIS LOCATION.

**PROPER INSTALLATION METHOD:**

EXCAVATE A TRENCH AROUND THE PERIMETER OF THE AREA INLET THAT IS AT LEAST 8" DEEP BY 8" WIDE. DRIVE POSTS TO A DEPTH OF AT LEAST 18" AROUND THE PERIMETER OF THE AREA INLET. THE DISTANCE BETWEEN POSTS SHOULD BE 4' OR LESS. IF THE DISTANCE BETWEEN TWO ADJACENT CORNER POSTS IS MORE THAN 4', ADD ANOTHER POST(S) BETWEEN THEM. CONNECT THE TOPS OF ALL THE POSTS WITH A WOODEN FRAME MADE OF 1" BY 4" BOARDS. USE NAILS OR SCREWS FOR FASTENING. ATTACH THE WIRE OR POLYMERIC-MESH BACKING TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH STAPLES, WIRE, ZIP TIES, OR NAILS. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC LONG ENOUGH TO WRAP AROUND THE PERIMETER OF THE AREA INLET. ADD MORE LENGTH FOR OVERLAPPING THE FABRIC JOINT. PLACE THE EDGE OF THE FABRIC IN THE TRENCH, STARTING AT THE OUTSIDE EDGE OF THE TRENCH. LINE ALL THREE SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED. ATTACH THE SILT FENCE TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH STAPLES, WIRE, ZIP TIES, OR NAILS. THE JOINT SHOULD BE OVERLAPPED TO THE NEXT POST.

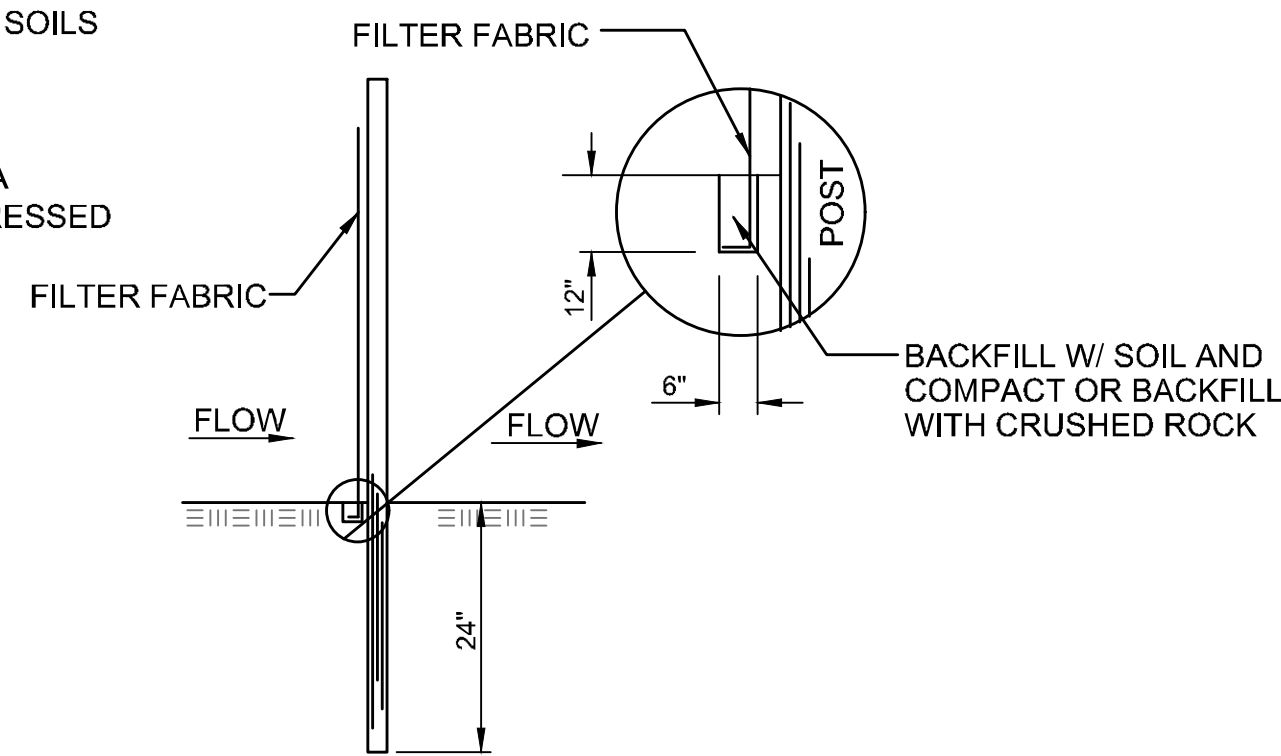
NOTE: WHEN A SILT FENCE BARRIER FOR AREA INLET IS PLACED IN A SHALLOW MEDIAN DITCH, MAKE SURE THAT THE TOP OF THE BARRIER IS NOT HIGHER THAN THE PAVED ROAD. IN THIS CONFIGURATION, WATER MAY SPREAD ONTO THE ROADWAY CAUSING A HAZARDOUS CONDITION.

**LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:**

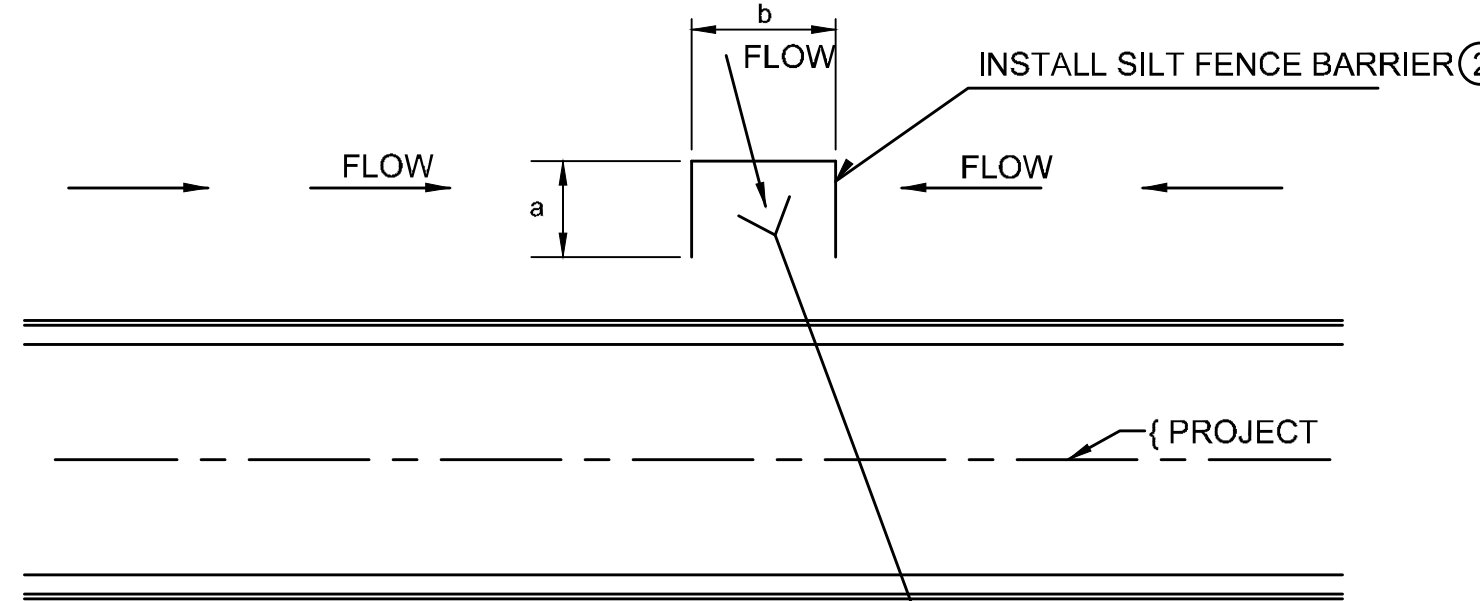
WATER SHOULD FLOW THROUGH A SILT FENCE BARRIER FOR AREA INLET-NOT OVER IT. PLACE A SILT FENCE BARRIER FOR AREA INLET IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED. SILT FENCE BARRIER FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED. DO NOT PLACE POSTS ON THE OUTSIDE OF THE SILT FENCE BARRIER FOR AREA INLET. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT INSTALL SILT FENCE BARRIER FOR AREA INLETS WITHOUT FRAMING THE TOP OF THE POSTS. THE CORNER POSTS AROUND AREA INLETS ARE STRESSED IN TWO DIRECTIONS WHEREAS A NORMAL SILT FENCE IS ONLY STRESSED IN ONE DIRECTION. THIS ADDED STRESS REQUIRES MORE SUPPORT.

**INSPECTION AND MAINTENANCE:**

SILT FENCE BARRIER FOR AREA INLETS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION: DOES WATER FLOW UNDER THE SILT FENCE? DOES THE SILT FENCE SAG EXCESSIVELY? HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS? DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE AREA INLET BARRIER?

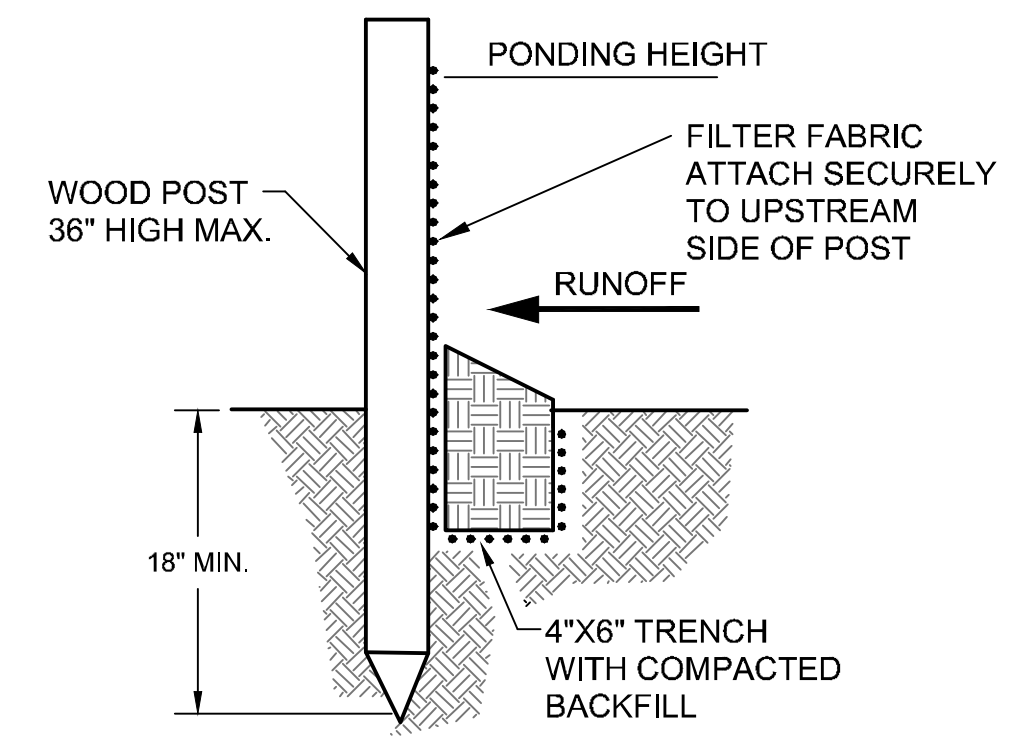


ANCHOR TRENCH DETAIL



**SEDIMENT CONTROL  
TYPICAL CROSS ROAD PIPE LOCATION**

2 (A) DIMENSION = DITCH BOTTOM WIDTH +10'  
"B" DIMENSION = END SECTION OR HEADWALL WIDTH +10'



**SILT FENCE BARRIERS**

**MATERIAL SPECIFICATION:**

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

**PLACEMENT:**

A SLOPE BARRIER SHOULD BE USED AT THE TOE OF A SLOPE WHEN A DITCH DOES NOT EXIST. THE SLOPE BARRIER SHOULD BE PLACED ON NEARLY LEVEL GROUND 5' TO 10' AWAY FROM THE TOE OF A SLOPE. THE BARRIER IS PLACED AWAY FROM THE TOE OF THE SLOPE TO PROVIDE ADEQUATE STORAGE FOR SETTLING OUT SEDIMENT. WHEN PRACTICABLE, SILT FENCE SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. SILT FENCE SLOPE BARRIERS CAN ALSO BE PLACED ALONG RIGHT-OF-WAY FENCE LINES TO KEEP SEDIMENT FROM CROSSING ONTO ADJACENT PROPERTY. WHEN PLACED IN THIS MANNER, THE SLOPE BARRIER WILL NOT LIKELY FOLLOW CONTOURS.

**PROPER INSTALLATION METHOD:**

EXCAVATE A TRENCH THE LENGTH OF THE PLANNED SLOPE BARRIER THAT IS 6" DEEP BY 4" WIDE. MAKE SURE THAT THE TRENCH IS EXCAVATED ALONG A SINGLE CONTOUR. WHEN PRACTICABLE, SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. PLACE THE SOIL ON THE UPSLOPE SIDE OF THE TRENCH FOR LATER USE. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSLOPE SIDE OF THE TRENCH. PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSLOPE EDGE. LINE ALL THREE SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT-FENCE FABRIC SHOULD REMAIN EXPOSED. LAY THE EXPOSED SILT FENCE UPSLOPE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSLOPE OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 18". PLACE POSTS NO MORE THAN 4' APART. ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

**LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:**

WHEN PRACTICABLE, DO NOT PLACE SILT FENCE SLOPE BARRIERS ACROSS CONTOURS. SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. WHEN THE FLOW CONCENTRATES, IT OVERTOPS THE BARRIER AND THE SILT FENCE SLOPE BARRIER QUICKLY DETERIORATES. DO NOT PLACE SILT-FENCE POSTS ON THE UPSLOPE SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT PLACE SILT FENCE SLOPE BARRIERS IN AREAS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE BARRIER IS NOT SUFFICIENTLY ANCHORED, IT WILL WASH OUT. SILT FENCE SLOPE BARRIERS MUST BE DUG INTO THE GROUND-SILT FENCE AT GROUND LEVEL DOES NOT WORK BECAUSE WATER WILL FLOW UNDERNEATH.

**INSPECTION AND MAINTENANCE:**

SILT FENCE SLOPE BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

- ARE THERE ANY POINTS ALONG THE SLOPE BARRIER WHERE WATER IS CONCENTRATING?
- DOES WATER FLOW UNDER THE SLOPE BARRIER?
- DO THE SILT FENCES SAG EXCESSIVELY?
- HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE SLOPE BARRIER?

**1 PHASE 2 EROSION CONTROL DETAILS**