

BLOOMFIELD TOWNSHIP

OAKLAND COUNTY, MICHIGAN

SENIOR CENTER PARKING LOT IMPROVEMENTS

HRC Job No. 20230762



BLOOMFIELD TOWNSHIP ADMINISTRATION

DANI WALSH
Township Supervisor

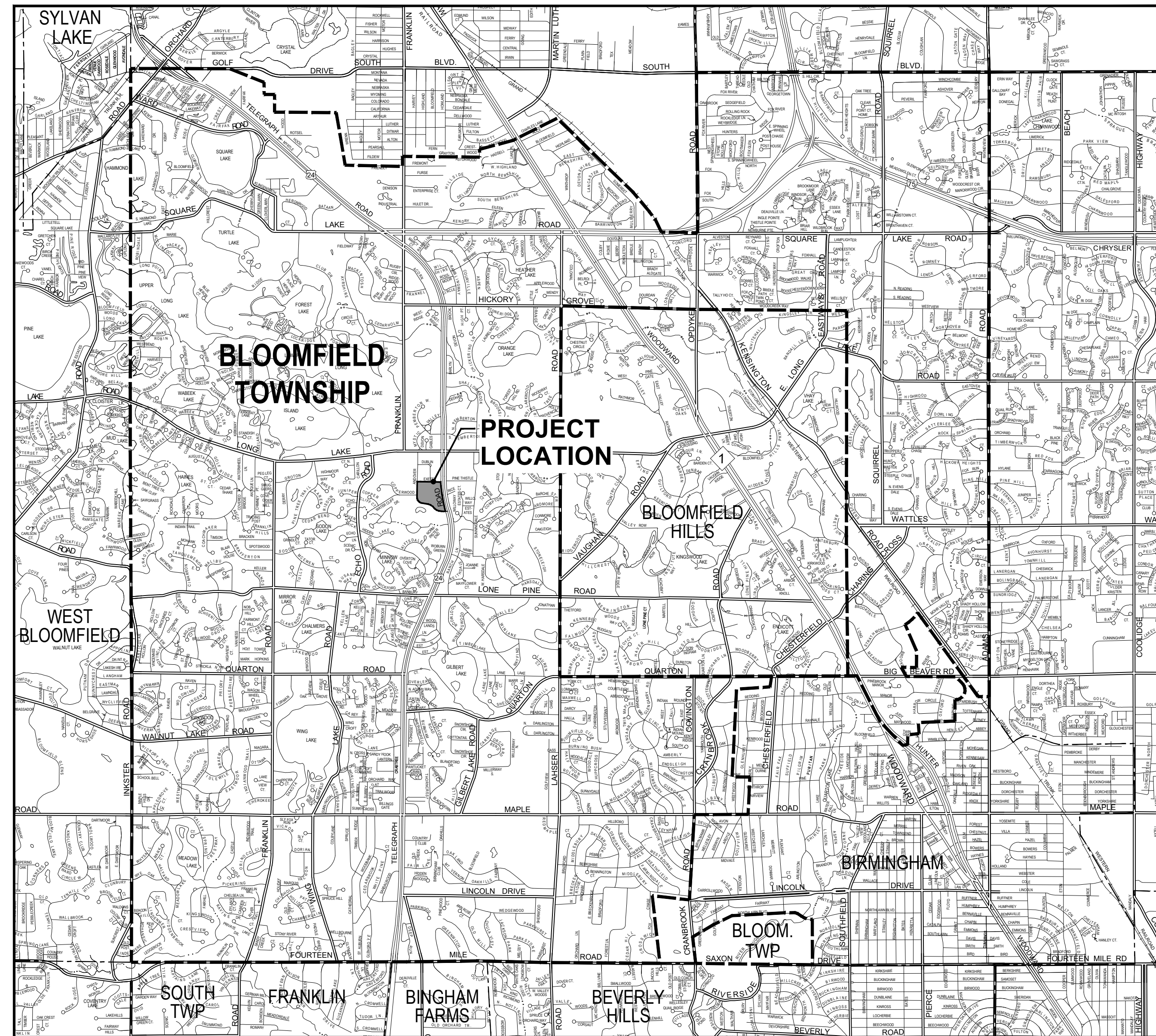
MARTIN BROOK
Township Clerk

MICHAEL SCHOSTAK
Township Treasurer

VALERIE MURRAY
NEAL J. BARNETT
STEPHANIE FAKIH
CHRIS KOLINSKI
Township Trustees

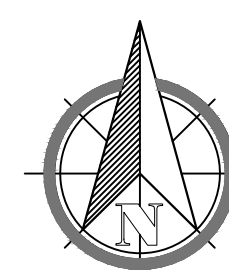
NOAH MEHALSKI
Director of
Department of Public
Works

R. COREY ALMAS
Director of
Engineering and Environmental
Services



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CALL MISS DIG
72 HOURS
(3 WORKING DAYS)
BEFORE YOU DIG
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or **811**
(TOLL FREE)

DATE	ISSUED FOR / ADDITIONS / REVISIONS
09-18-2024	ADDENDUM No. 1
09-03-2024	ISSUED FOR BIDS
08-01-2024	OWNER'S REVIEW
07-23-2024	OWNER'S REVIEW
07-15-2024	OWNER'S REVIEW

STATE OF MICHIGAN
KARYN M. STICKEL
ENGINEER
No. 52655
LICENSED PROFESSIONAL ENGINEER

KARYN M. STICKEL

PREPARED BY:

HRC
HUBBELL, ROTH & CLARK, INC
CONSULTING ENGINEERS SINCE 1915

555 HULEY DRIVE
BLOOMFIELD HILLS, MICH.
PHONE: (248) 454-6300
FAX (1st Floor): (248) 454-6312
FAX (2nd Floor): (248) 454-6359

P.O. BOX 824
48303 - 0824

WEB SITE: [http:// www.hrceng.com](http://www.hrceng.com)

PREPARED FOR:

BLOOMFIELD TOWNSHIP

DEPARTMENT OF
PUBLIC WORKS

4200 TELEGRAPH ROAD, P.O. Box 489
BLOOMFIELD TWP, MICHIGAN 48303-0489
PHONE: 248-433-7700

PROJECT NOTES

THE PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE BLOOMFIELD TOWNSHIP STANDARD SPECIFICATIONS, DETAILS AND SPECIAL PROVISIONS PROVIDED HEREIN.

COOPERATION BY THE CONTRACTOR: NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR ANY DELAY OR INCONVENIENCE DUE TO MATERIAL SHORTAGES OR REASONABLE DELAYS DUE TO THE OPERATIONS OF SUCH OTHER PARTIES DOING WORK INDICATED OR SHOWN ON THE PLANS OR IN THE PROPOSAL OR FOR ANY REASONABLE DELAYS IN CONSTRUCTION DUE TO THE ENCOUNTERING OF EXISTING UTILITIES THAT MAY OR MAY NOT BE SHOWN ON THE PLANS.

LIMITATIONS ON PRIVATE WORK: DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL NOT PERFORM ANY WORK BY PRIVATE AGREEMENT WITH PROPERTY OWNERS ADJACENT TO THE PROJECT WITHOUT PRIOR TOWNSHIP CONSENT. WORK MAY BE ALLOWED WHEN REQUESTED BY THE TOWNSHIP, BUT ONLY WITH WRITTEN CONSENT.

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL CODES FOR NOISE LEVELS, VIBRATIONS, OR ANY OTHER RESTRICTIONS WHILE PERFORMING ANY CONSTRUCTION OPERATIONS WITHIN THIS CONTRACT; COSTS TO BE INCLUDED IN THE RESPECTIVE ITEM OF WORK.

THE CONTRACTOR SHALL, BEFORE EACH DAYS WORK, OR WHEN MOVING TO A NEW AREA OF WORK, DETERMINE AND EVALUATE THE LOCATION OF ALL UNDERGROUND FACILITIES IN THE AREA. IF LOCATION STAKES HAVE BEEN MOVED OR DO NOT APPEAR CORRECT, THE CONTRACTOR SHALL NOT EXCAVATE UNTIL ALL UTILITIES HAVE HAD AN OPPORTUNITY TO CHECK OR RESTAKE THEIR LOCATIONS. ANY DELAYS INCURRED DUE TO THE CHECKING OR RESTAKING OF UTILITIES SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION.

THERE WILL BE NO ADJUSTMENT IN THE CONTRACT UNIT PRICE REGARDLESS OF THE PERCENTAGE OF INCREASE OR DECREASE ABOVE OR BELOW THE CONTRACT QUANTITY FOR ANY ITEM OF WORK.

IT IS THE INTENT THAT ALL GOVERNMENT CORNERS ON THIS PROJECT BE PRESERVED AND THAT, WHERE NECESSARY, MONUMENT BOXES BE PLACED OR ADJUSTED, WHETHER SHOWN OR NOT.

PROPERTY OWNERS' NAMES, WHERE SHOWN, ARE FOR INFORMATION ONLY AND THEIR ACCURACY IS NOT GUARANTEED.

THE LOCATION OF ALL PUBLIC UTILITIES SHOWN ON THESE PLANS IS TAKEN FROM THE BEST AVAILABLE DATA. BLOOMFIELD TOWNSHIP AND HUBBELL, ROTH & CLARK, INC. WILL NOT BE HELD RESPONSIBLE FOR ANY OMISSION OR VARIATIONS FROM THE LOCATIONS SHOWN. PURSUANT TO ACT 53 OF THE PA OF 1974 AS A CONDITION OF THIS CONTRACT, NOTICE SHALL BE GIVEN TO MISS DIG PRIOR TO UNDERGROUND WORK TO BE PERFORMED IN ACCORDANCE WITH THIS CONTRACT. PHONE (800)-482-7171 OR 647-7344.

CONTRACTOR TO SUBMIT DETAILED CONSTRUCTION SEQUENCE AT THE PRECONSTRUCTION MEETING NOTING ALL CHANGES TO PROPOSED SCHEDULE OF WORK PROPOSED OR WORK PROPOSED TO OCCUR CONCURRENTLY WITH OTHER ITEMS OF WORK.

SEQUENCE OF CONSTRUCTION - SOIL EROSION CONTROL

- 1. CONTRACTOR TO PLACE SOIL EROSION BARRIERS AT PLACES DESIGNATED ON THE PLANS AND SPECIFICATIONS AND AS REQUIRED BY PERMITTING AGENCY REPRESENTATIVE.
2. REMOVE VEGETATION AND TOPSOIL FROM CONSTRUCTION AREA.
3. BEGIN CONSTRUCTION.
4. CHECK AND MAINTAIN SOIL EROSION CONTROL MEASURES.
5. COMPLETE CONSTRUCTION.
6. RESTORE ALL DISTURBED AREAS AS SPECIFIED.
7. CONTRACTOR TO MAINTAIN SOIL EROSION MEASURES THROUGHOUT THE DURATION OF THE PROJECT UNTIL GRASS IS ESTABLISHED. THEN THE CONTRACTOR IS TO REMOVE THEM.

ALL SOIL EROSION CONTROL MEASURES AS SHOWN ON THESE PLANS OR AS NEEDED TO COMPLETE THIS PROJECT PAID FOR AT THE UNIT PRICES AS INCLUDED IN THE PROPOSAL. ADDITIONAL SILT FENCE AND/OR OTHER SOIL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE OAKLAND COUNTY WATER RESOURCE COMMISSIONER AND/OR THE ENGINEER WHERE GRADES DICTATE AND A MINIMUM TWENTY-FIVE (25) FOOT VEGETATIVE BUFFER DOES NOT EXIST. ANY ADDITIONAL SILT FENCE TO BE PAID FOR AT THE UNIT PRICE AS PROVIDED IN THE PROPOSAL.

SOIL EROSION CONTROL AROUND BORE PITS SHALL INCLUDE INSTALLATION OF SILT FENCE DOWNSLOPE OF THE DISTURBED AREA. BORE PITS SHALL ALSO BE PROTECTED BY THE INSTALLATION OF A FOUR (4) FOOT HIGH CONSTRUCTION FENCING AROUND THE PERIMETER OF THE DISTURBED AREA.

RESTORATION

RESTORE ALL ESTABLISHED LAWN AREAS WITH: TOPSOIL SURFACE, 3" DEEP, CLASS A SOD, FERTILIZER, SEED AND MULCH BLANKET MAY BE USED AT NO ADDITIONAL COST IN AREAS WHERE SODDING IS NOT ADVISABLE, AS APPROVED BY THE ENGINEER.

WATER REQUIRED FOR SOD SHALL BE INCLUDED IN THE "Restoration" BID ITEM. WATER REQUIRED FOR COMPACTION SHALL BE INCLUDED IN THE COST OF CONSTRUCTION FOR THIS PROJECT.

ALL AREAS DISTURBED BY THE CONTRACTOR AND/OR HIS SUBCONTRACTOR BEYOND THE NORMAL CONSTRUCTION LIMITS OF THIS PROJECT SHALL BE SODDED OR SEEDDED AS SPECIFIED OR DIRECTED BY THE ENGINEER. NO ADDITIONAL PAYMENT OR COMPENSATION WILL BE ALLOWED FOR THIS ACTIVITY.

RESTORED SURFACES SHALL BE GRADED SO THAT SURFACE RUNOFF FROM ROADWAYS AND OTHER AREAS CAN DRAIN AS SHEET FLOW TO DITCHES OR DRAINAGE STRUCTURES. ANY CONCENTRATION OF FLOWS THAT CAUSE EROSION SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL EXPENSE.

SPRINKLER SYSTEMS SHALL NOT BE COVERED WHEN PLACING TOPSOIL AND SOD.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING OR REPAIRING ANY SPRINKLER SYSTEMS, LANDSCAPED AREAS, OR DECORATIVE STONE FEATURES THAT ARE DAMAGED OR DISTURBED BY THE CONTRACTOR'S OPERATIONS. SPRINKLER SYSTEMS SHALL BE REPAIRED WITHIN FIVE (5) DAYS. LANDSCAPE AND DECORATIVE STONE MATERIALS MAY BE SALVAGED AND RE-INSTALLED IF IN GOOD CONDITION, OR OTHERWISE REPLACED IN KIND. ALL SUCH COSTS SHALL BE INCLUDED IN THE LUMP SUM PRICES BID FOR "RESTORATION (EXCLUDING ASPHALT ROADS)" AND "REMOVE, SALVAGE EXISTING LANDSCAPING".

ALL DISTURBED AREAS TO BE RESTORED WITHIN SEVEN (7) DAYS OF COMPLETION

UTILITIES

THE FOLLOWING UTILITY COMPANIES MAY HAVE FACILITIES WITHIN THE PROJECT LIMITS:

AT&T

ATTN: JEFF HEATH
54 N. MILL ST.
BOX 32, PONTIAC, MI 48342
(248) 975-4588

OCWRC

ATTN: BRIAN BENNETT
ONE PUBLIC WORKS DRIVE
WATERFORD, MI 48328
(248) 431-1132

CONSUMERS ENERGY

ATTN: CHERI PAYNE
4600 COOLIDGE ROAD
ROYAL OAK, MI 48073
(248) 433-5618

RCOC

ATTN: SCOTT SINTKOWSKI
2420 PONTIAC LAKE ROAD
WATERFORD, MI 48328
(248) 858-4835

DTE ENERGY

ATTN: CARL FORD
37849 INTERCHANGE DRIVE
FARMINGTON HILLS, MI 48335
(248) 427-2937
ELECTRICAL EMERGENCY
(800) 477-4747

COMCAST

ATTN: DARYL WOOD
25656 TELEGRAPH ROAD
SOUTHFIELD, MI 48034
(248) 809-2721

SBHIA

ATTN: JIM TASSEN
(248) 224-3720

PRIOR TO WORK NEAR FACILITIES BELONGING TO THE ABOVE AGENCIES, A MINIMUM OF 72 HOURS NOTICE MUST BE GIVEN IN ORDER TO INSURE PROPER INSPECTION BY THE

THE EXISTING UTILITIES LISTED HEREIN AND SHOWN ON THESE PLANS REPRESENT THE BEST INFORMATION AVAILABLE AS OBTAINED FROM UTILITY RECORD MAPS AND VISUAL REVIEW. THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO SATISFY HIMSELF AS TO THEIR ACCURACY OR OF HIS RESPONSIBILITY IN CASE UTILITIES HAVE BEEN CONSTRUCTED, RELOCATED OR REMOVED.

OWNERS OF PUBLIC UTILITIES WILL NOT BE REQUIRED TO MOVE ADDITIONAL POLES AND STRUCTURES THAT ARE NOT SPECIFICALLY INDICATED AS SUCH ON THE PLANS.

THE CONTRACTOR SHALL LOCATE ALL ACTIVE UNDERGROUND UTILITIES PRIOR TO STARTING WORK, AND SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER AS TO INSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.

FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL DIAL 800-482-7171 A MINIMUM OF 3 WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS, PRIOR TO EXCAVATING IN THE VICINITY OF UTILITY LINES. ALL "MISS-DIG" PARTICIPATING UTILITIES WILL THIS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

MISCELLANEOUS

PROTECTION AND RESTORATION OF PROPERTY: EXISTING MAILBOXES DISTURBED BY CONSTRUCTION ON THE PROJECT SHALL BE TEMPORARILY RESET ALONG THE OWNER'S DRIVEWAY OR ALONG AN INTERSECTING STREET, BEYOND THE LIMITS OF CONSTRUCTION AS DIRECTED BY THE ENGINEER. WHEN THE PROJECT IS COMPLETED, THE MAILBOXES SHALL BE RESET BY THE CONTRACTOR IN ACCORDANCE WITH POSTAL REGULATIONS. THE TEMPORARY RESETTING AND FINAL PLACEMENT OF THE MAILBOXES WILL BE CONSIDERED INCLUDED IN THE COST OF THE PROJECT.

AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL REPAIR OR REPLACE ALL MAILBOXES, AND/OR THEIR SUPPORTS, HE MAY HAVE DAMAGED BEYOND THE LIMITS OF CONSTRUCTION. NO ADDITIONAL PAYMENT OR COMPENSATION WILL BE ALLOWED FOR THIS ACTIVITY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROPERTY BEYOND THE SLOPE STAKE LINE, INCLUDING EXISTING FENCING, LAWN, TREES AND SHRUBBERY.

ALL TREES AND SHRUBS REQUIRED TO BE TRIMMED/PRUNED SHALL BE DONE IN A MANNER TO MAINTAIN NATURAL APPEARANCE. ALL TREES INDICATED TO BE PROTECTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER SHALL HAVE TEMPORARY PROTECTIVE MEASURES INSTALLED PER STANDARD SPECIFICATIONS.

CONTRACTOR TO COORDINATE CONSTRUCTION ACTIVITIES WITH OTHER CONTRACTORS WORKING IN THE AREA.

PERMITS REQUIRED

OCWRC SESC: PERMIT NO. (NOT RECEIVED TO DATE)

LEGEND - EX. TOPOGRAPHY

Table listing symbols for existing topography: BUILDING, CONCRETE, ASPHALT, GRAVEL, STORM, SANITARY, SANITARY FORCE MAIN, WATERMAIN, GAS, UND. TELEPHONE, UND. ELECTRICAL, OVERHEAD ELECTRICAL, UND. FIBER OPTIC, SQ. & RD. CATCH BASINS & INLETS IN PAVEMENT, STORM MANHOLE & PIPE END, UNSPECIFIED MH., RISER & DOWN SPOUT, PUMP STATION / SAN MH., FIRE HYDRANT, GATE & VALVE, & WELL, CISTERN & WELL, WATER STOP BOX & SPRINKLER HEAD, WATER TOWER BASE & METER PIT, UTILITY POLE, LIGHT POLE, GUY WIRE ANCHOR, UNDERGROUND MARKER, RISER/CABLE-TELE, GAS BOX & BLOW OFF, SIGNS & SIGN POST, DECIDUOUS TREE, DECIDUOUS SHRUB, CONIFEROUS TREE, CONIFEROUS SHRUB, SPOT GRADES, CONTOURS.

LEGEND - PR. PAVING

Table listing symbols for proposed paving: PROPOSED HEAVY-DUTY CONCRETE PAVEMENT, PROPOSED CONCRETE PAVEMENT / SIDEWALK, PROPOSED BITUMINOUS PAVEMENT, PROPOSED BITUMINOUS PAVEMENT - FULL DEPTH, PROP. 2" CONC CURB & GUTTER - DETAIL F4, PROP. 2" CONC CURB & GUTTER - DETAIL F4 MOD.

LEGEND - PR. SESC

Table listing symbols for proposed SESC: PROPOSED LIMITS OF DISTURBANCE, PROPOSED SILT SACK ON STORM INLETS, PROPOSED SILT FENCE.

LEGEND - PR. REMOVALS

Table listing symbols for proposed removals: EX. PAVEMENT REMOVAL - FULL DEPTH SAWCUT, EX. PAVEMENT REMOVAL - SAWCUT, EX. CURB REMOVAL - FULL DEPTH SAWCUT, EX. UTILITY STRUCTURE & EX. LIGHT POLE REMOVAL, EX. TREE / SHRUB REMOVAL.

LEGEND - PR. GRADING

Table listing symbols for proposed grading: PROP. MAJOR CONTOUR, PROP. MINOR CONTOUR, PROP. TOP OF CURB & GUTTER GRADES, PROP. TOP OF WALK & TOP OF PAVEMENT GRADES, PROP. SPOT GRADES.

LEGEND - PR. UTILITIES

Table listing symbols for proposed utilities: PR. STORM SEWER AND STRUCTURES, PROPOSED 4" SOLID WALL HDPE, PROPOSED 4" WRAPPED PERFORATED HDPE EDGE DRAIN.

NOTICE: ALL EXISTING UTILITIES SHOWN ON THIS TOPOGRAPHIC SURVEY HAVE BEEN TAKEN FROM VISUAL OBSERVATION AND RECORD MAPPING WHERE AVAILABLE. NO GUARANTEE IS MADE, OR SHOULD BE ASSUMED, AS TO THE COMPLETENESS OR ACCURACY OF THE UTILITIES SHOWN ON THIS DRAWING. PARTIES UTILIZING THIS INFORMATION SHALL FIELD VERIFY THE ACCURACY AND COMPLETENESS PRIOR TO CONSTRUCTION.



CALL MISS DIG 72 HOURS (3 WORKING DAYS) BEFORE YOU DIG 1-800-482-7171 or 811 (TOLL FREE)

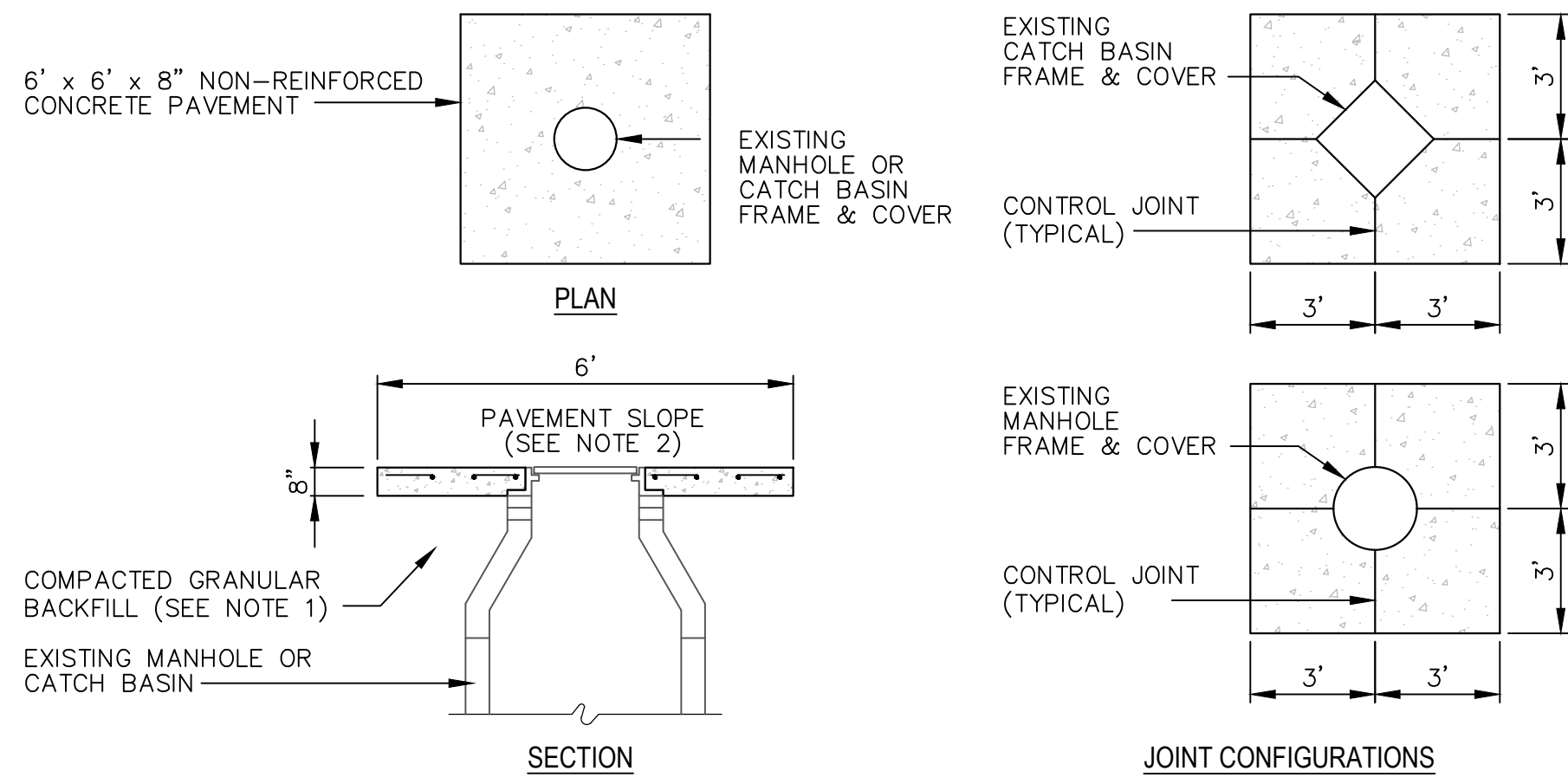


HRC HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915 555 HULET DRIVE BLOOMFIELD HILLS, MICH. P.O. BOX 824 48303 - 0824 PHONE: (248) 454-6300 FAX (1st. Floor): (248) 454-6312 FAX (2nd. Floor): (248) 454-6359 WEB SITE: www.hrcengr.com

Table with columns: DATE, ADDITIONS AND/OR REVISIONS. Includes rows for ADDENDUM No. 1, ISSUED FOR BIDS, OWNER'S REVIEW, and a table for DESIGNER, DRAWN, CHECKED, APPROVED.

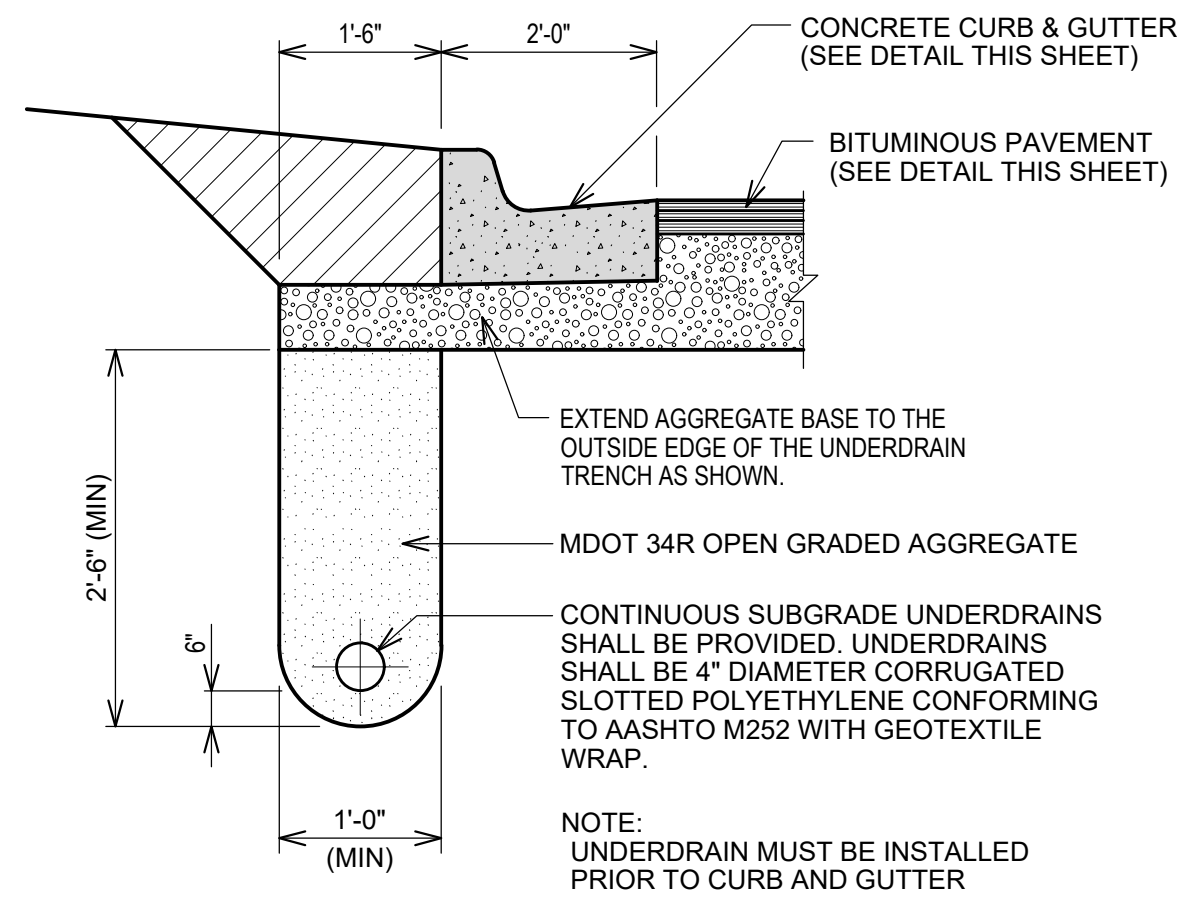


BLOOMFIELD TOWNSHIP SENIOR CENTER PARKING LOT IMPROVEMENTS OAKLAND COUNTY MICHIGAN PROJECT NOTES HRC JOB NO. 20230762 SCALE 1" = 20' DATE March 2024 SHEET NO. C-01 OF ORIGINAL PLOT SIZE: ARCH D (24.00 X 36.00 INCHES) © 2024 Hubbell, Roth & Clark, Inc. All Rights Reserved

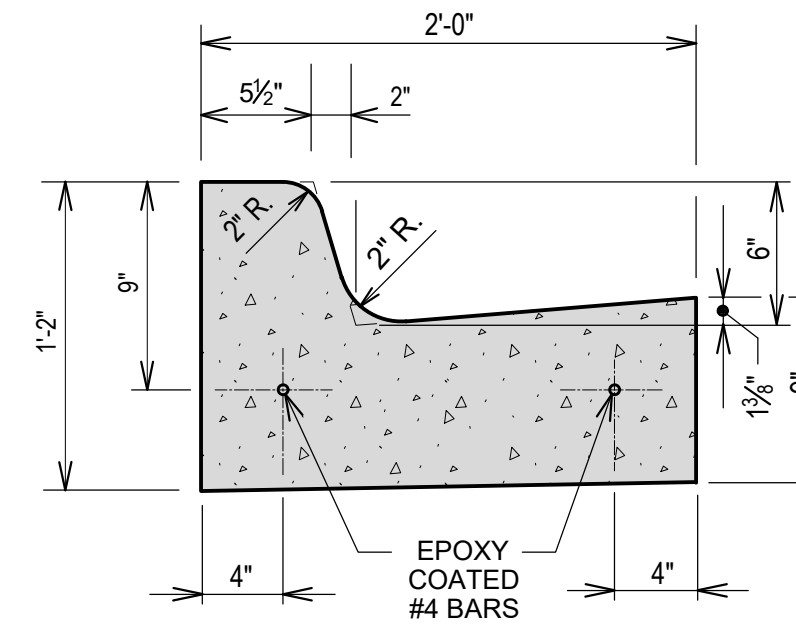


- NOTES:
1. GRANULAR BASE MATERIAL SHALL MEET THE STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR GRADATION AND OTHER SPECIFIED MATERIAL REQUIREMENTS.
 2. PAVEMENT SLOPE SHALL NOT EXCEED A MAXIMUM CROSS SLOPE OF 2.0% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.0%.

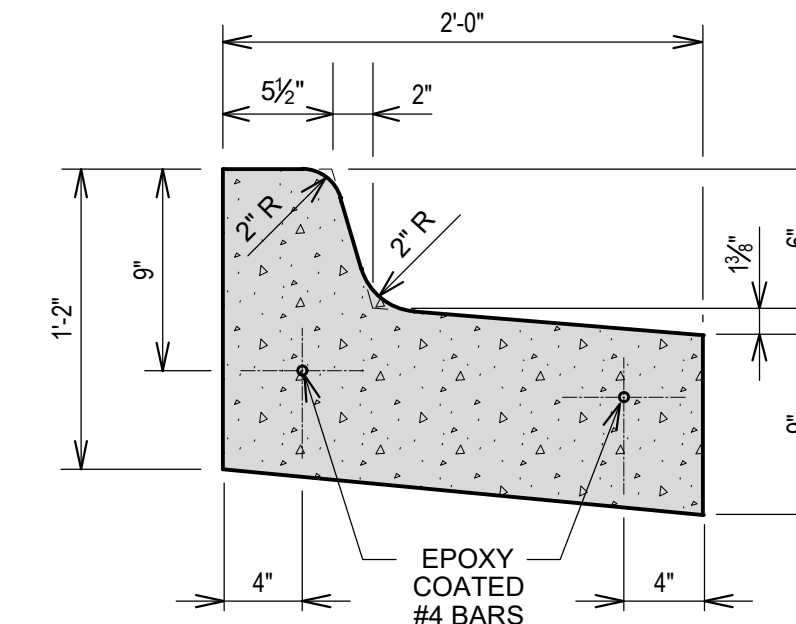
CONCRETE COLLAR DETAIL
NOT TO SCALE



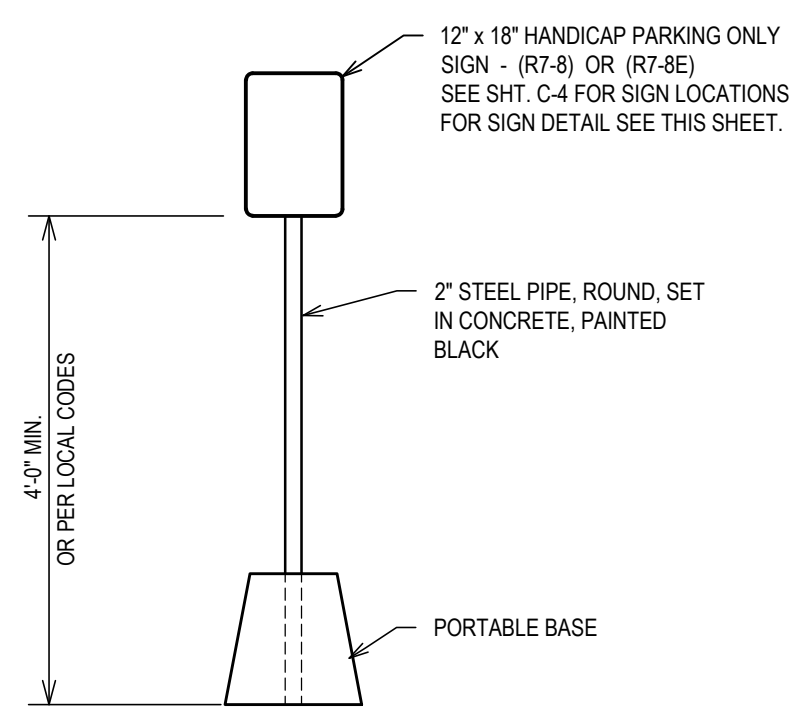
TYPICAL UNDERDRAIN DETAIL
NOT TO SCALE



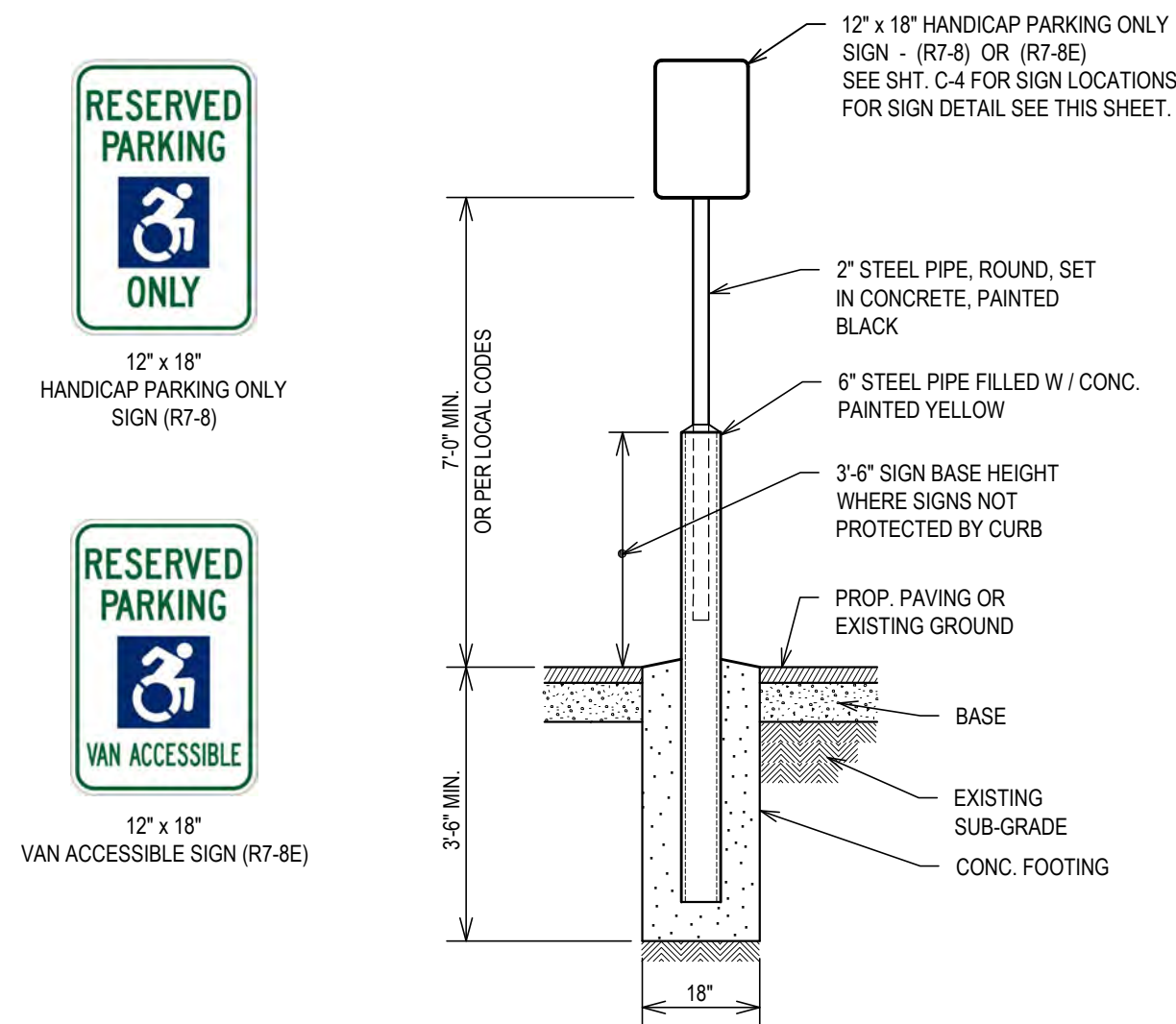
MDOT TYPE F4 CONC. CURB & GUTTER DETAIL
NOT TO SCALE



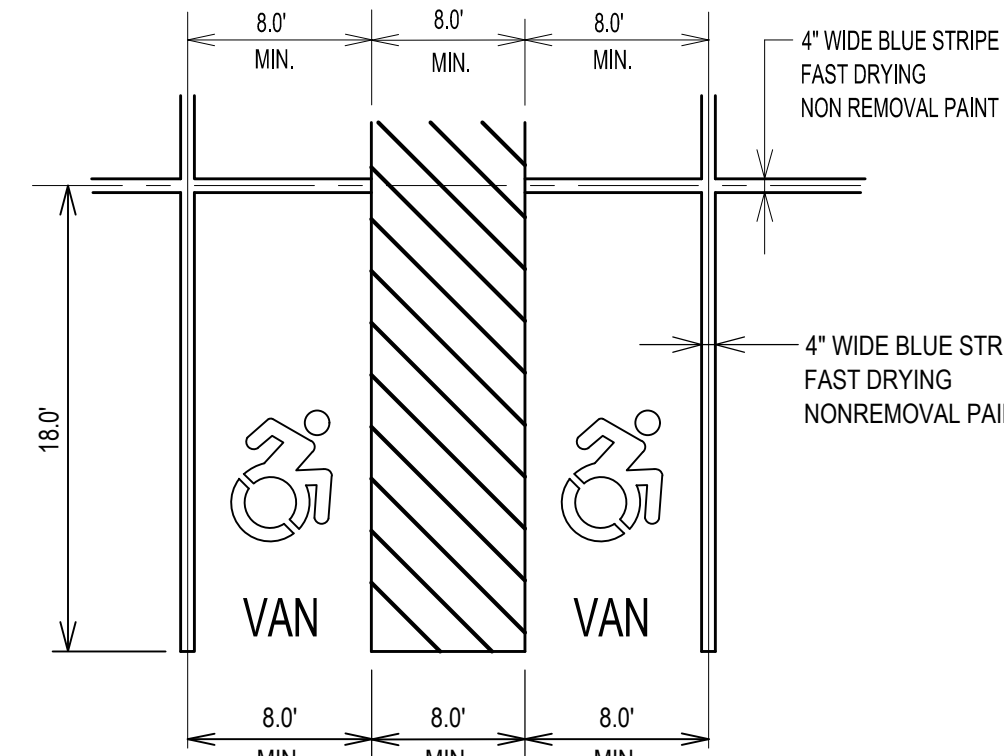
MDOT TYPE F4 (REVERSE) CONC. CURB & GUTTER DETAIL
NOT TO SCALE



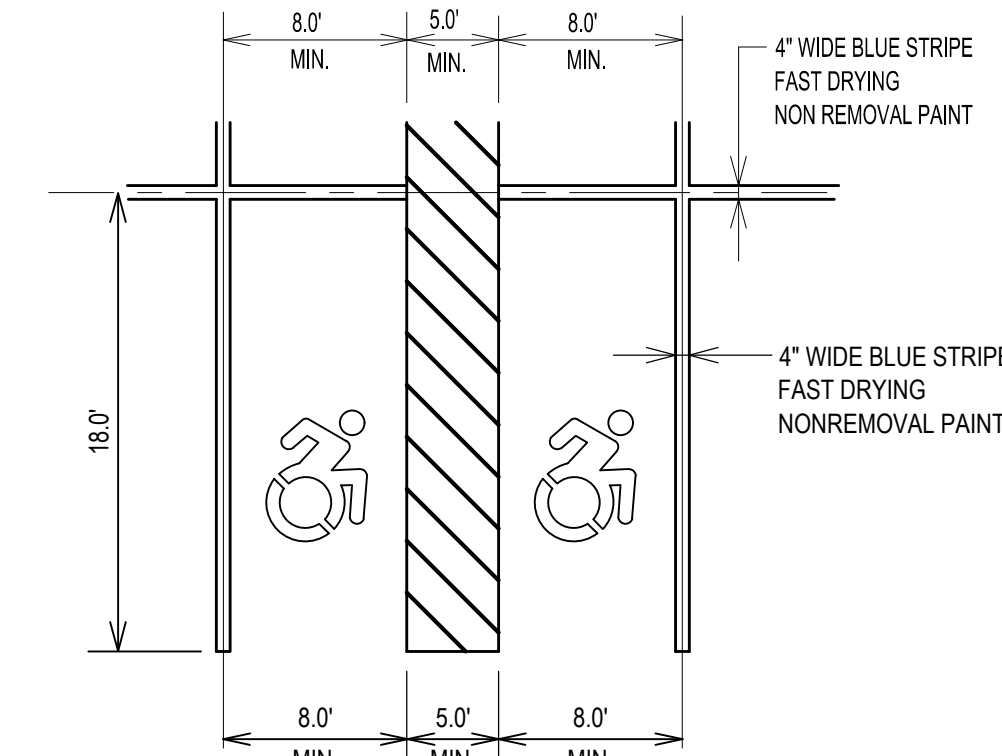
TEMPORARY BARRIER FREE SIGNAGE DETAIL
NOT TO SCALE



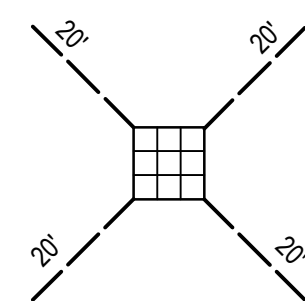
TYP. BARRIER FREE SIGNAGE DETAIL
NOT TO SCALE



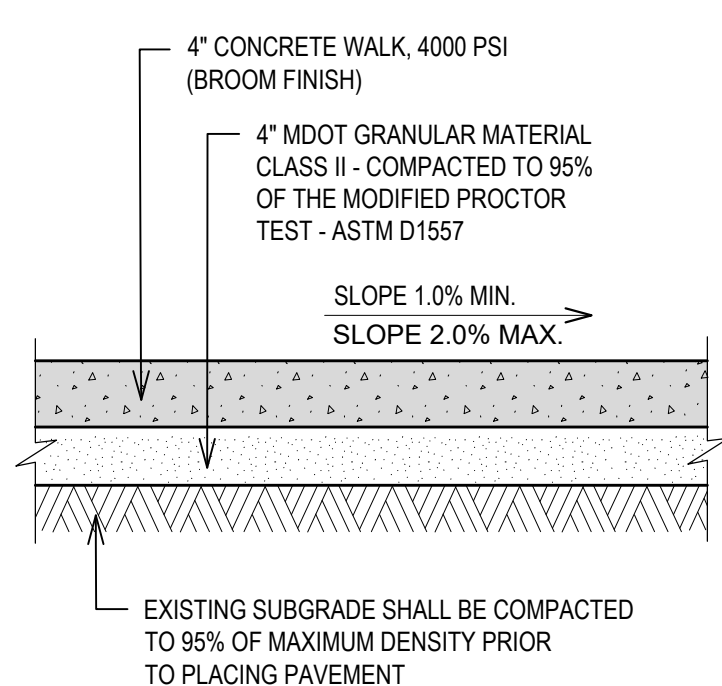
TYPICAL BARRIER-FREE VAN PARKING SPACE
NOT TO SCALE



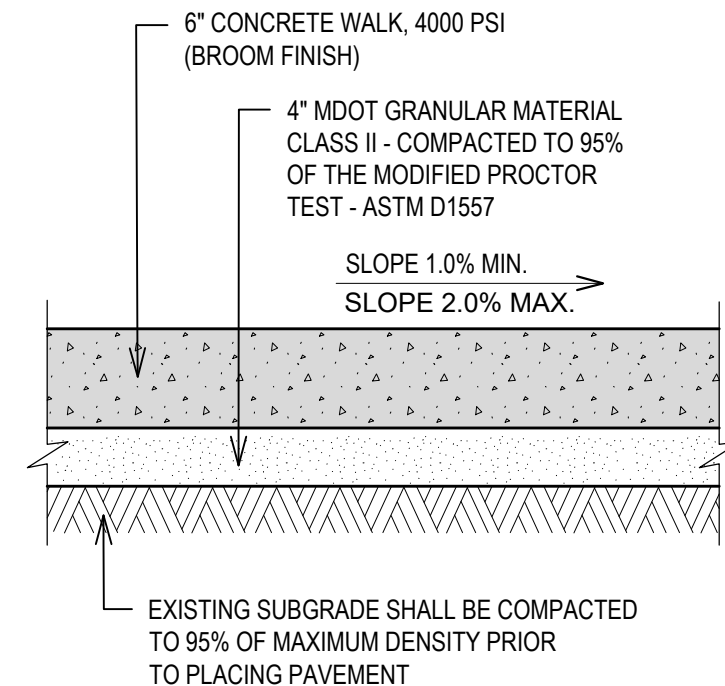
TYPICAL BARRIER-FREE PARKING SPACE
NOT TO SCALE



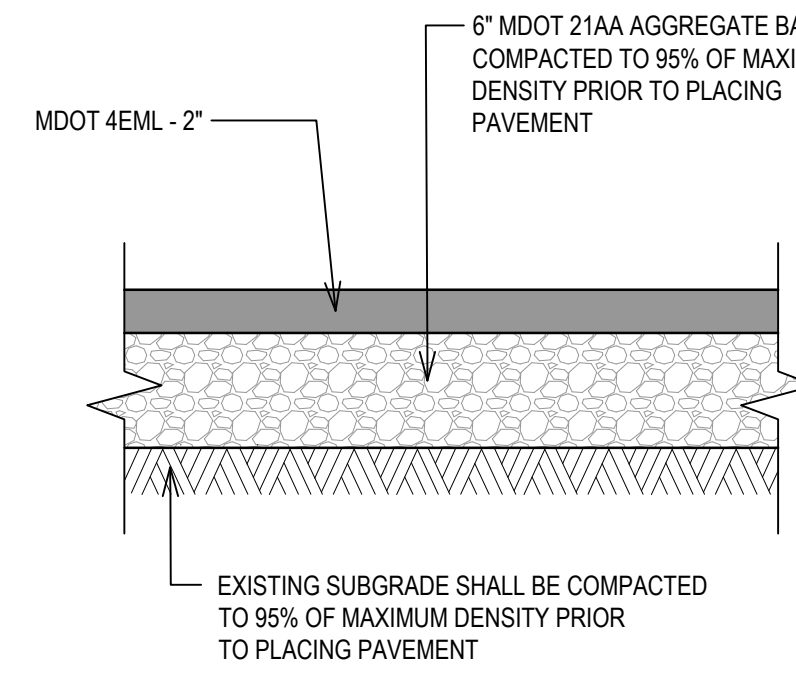
CATCH BASIN/STORM MANHOLE EDGE DRAIN IN PARKING LOT DETAIL- (TYP.)
NOT TO SCALE



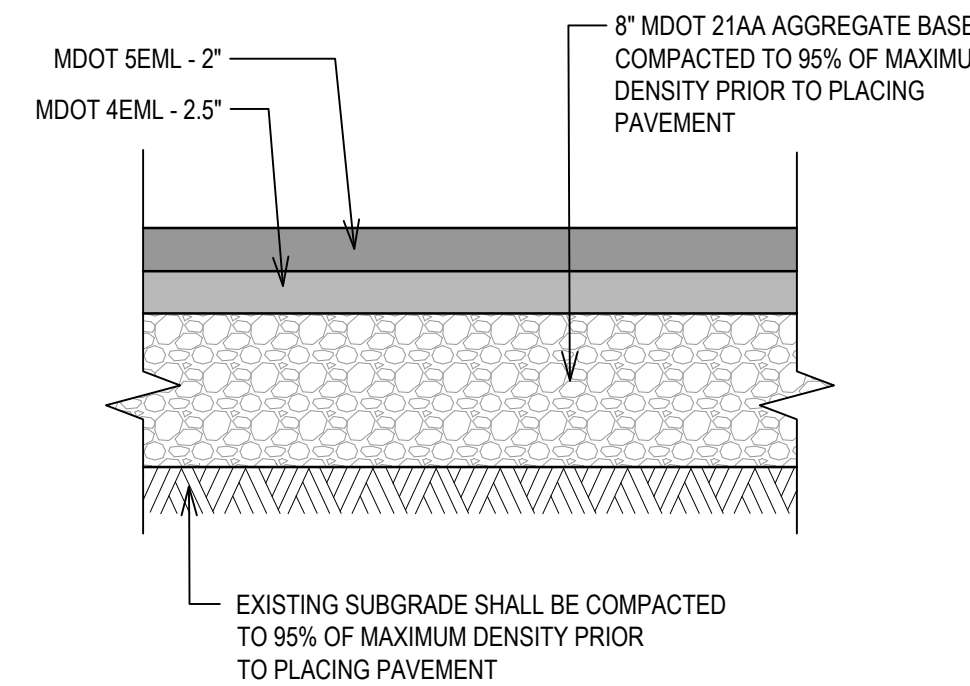
4 INCH SIDEWALK TYPICAL CONCRETE SECTION
NOT TO SCALE



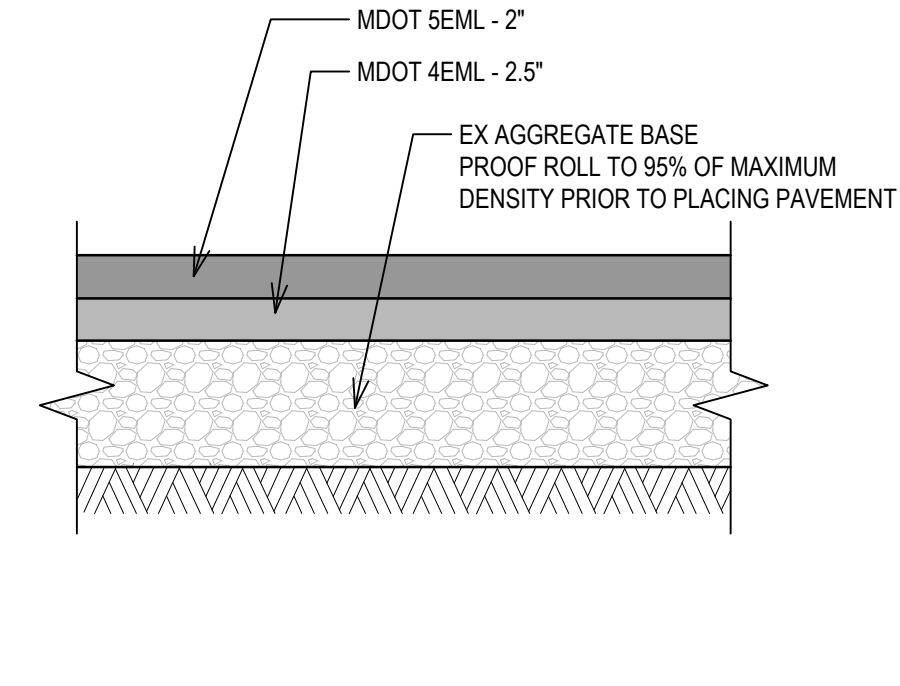
6 INCH SIDEWALK TYPICAL CONCRETE SECTION
NOT TO SCALE



TEMPORARY PAVEMENT SECTION
NO SCALE



TYPICAL FULL DEPTH BITUMINOUS PAVEMENT SECTION
NO SCALE



TYPICAL BITUMINOUS PAVEMENT SECTION
NO SCALE



HRC
HUBBELL, ROTH & CLARK, INC
CONSULTING ENGINEERS SINCE 1915
555 HULET DRIVE P.O. BOX 824
BLOOMFIELD HILLS, MICH. 48303 - 0824
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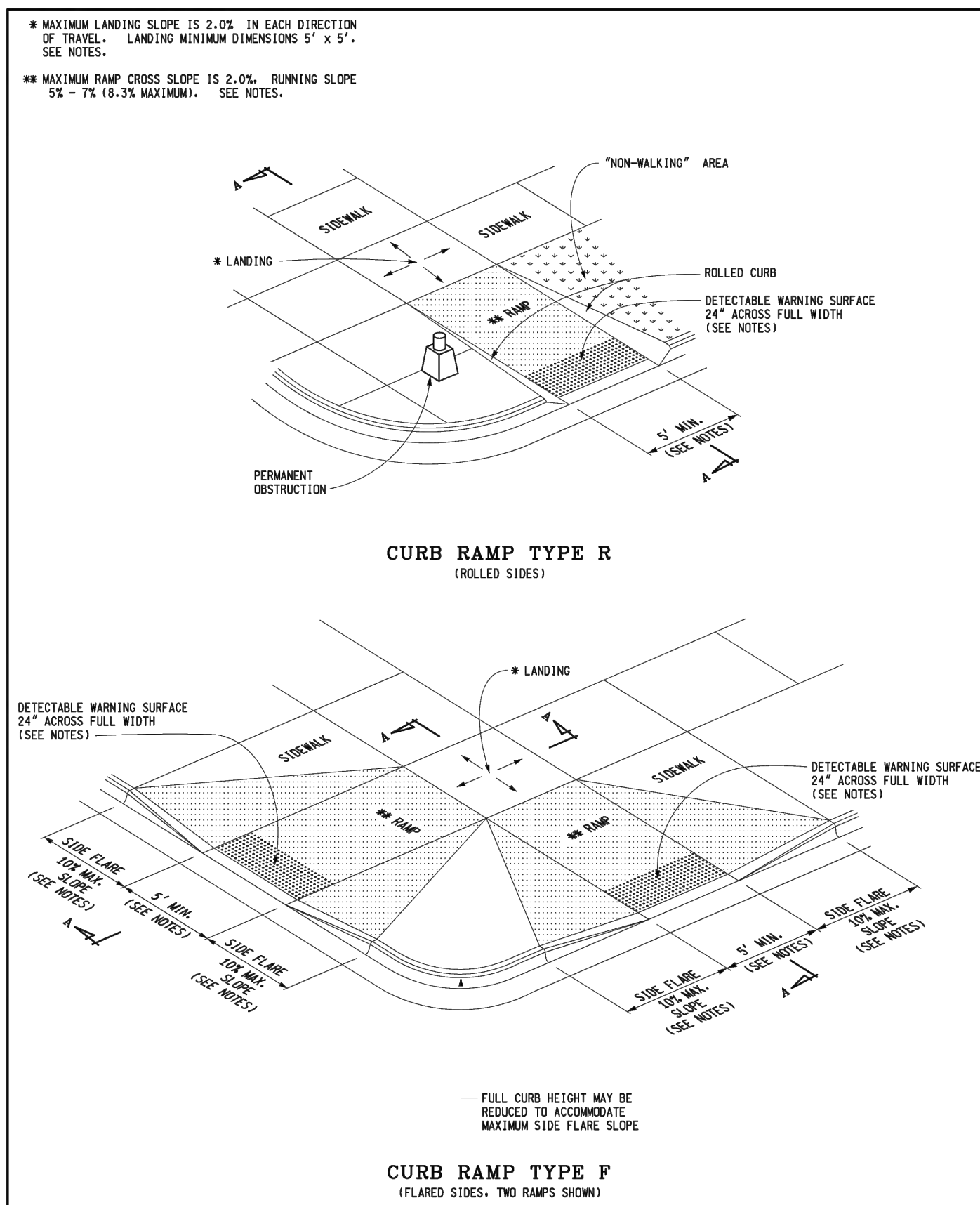
BLOOMFIELD TOWNSHIP

SENIOR CENTER PARKING LOT IMPROVEMENTS

OAKLAND COUNTY MICHIGAN

PROJECT DETAILS

HRC JOB NO. 20230762	SCALE 1" = 20'
DATE March 2024	SHEET NO. C-02 OF



DEPARTMENT DIRECTOR
Paul J. Aghaja

APPROVED BY: DIRECTOR, BUREAU OF FIELD SERVICES

PREPARED BY: CHONG TRAN, P.E. (4-16-2024 12:52 PM)

DESIGN DIVISION

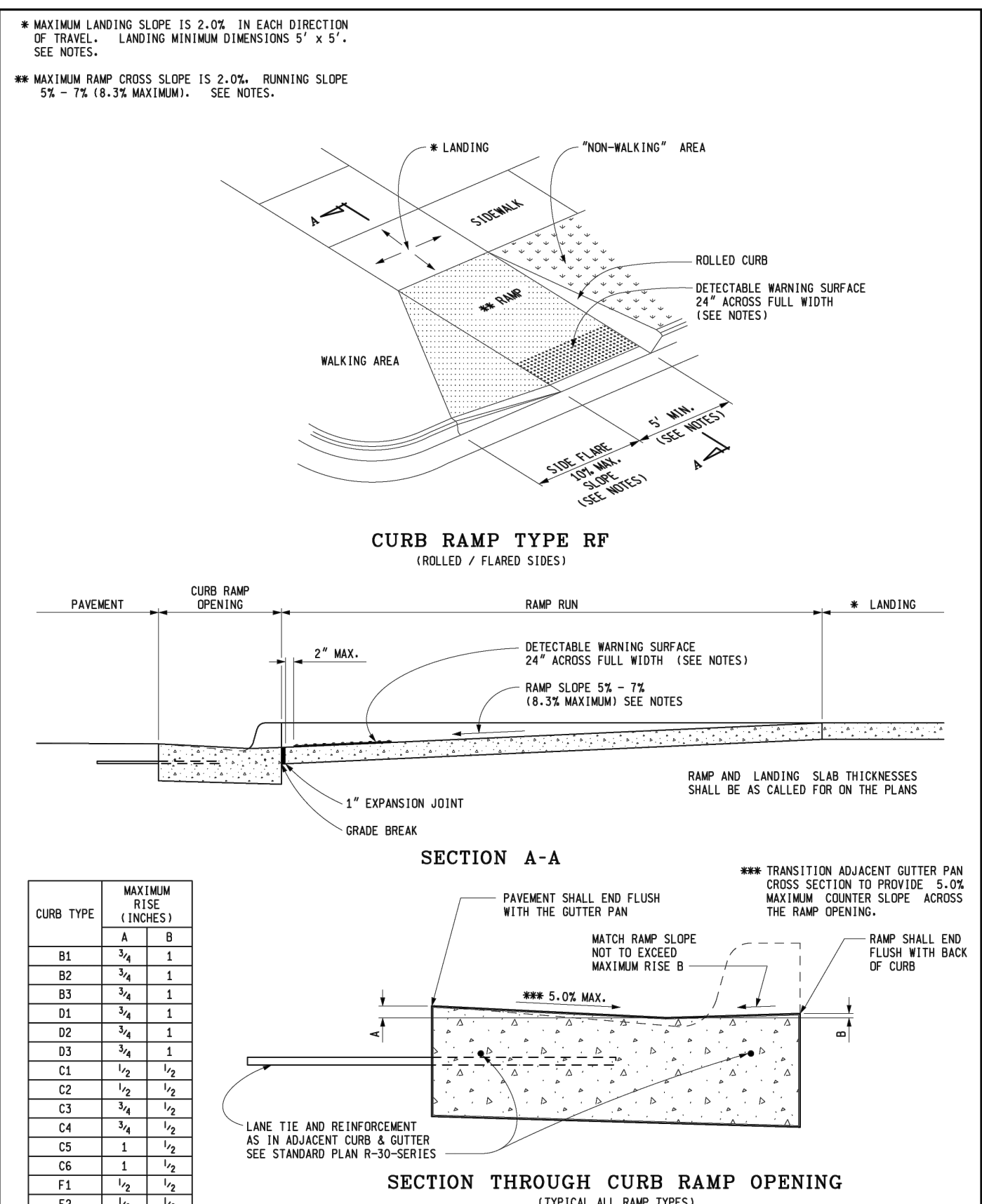
DRAWN BY: B.L.L.

CHECKED BY: M.K.P.

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR

CURB RAMP AND DETECTABLE WARNING DETAILS

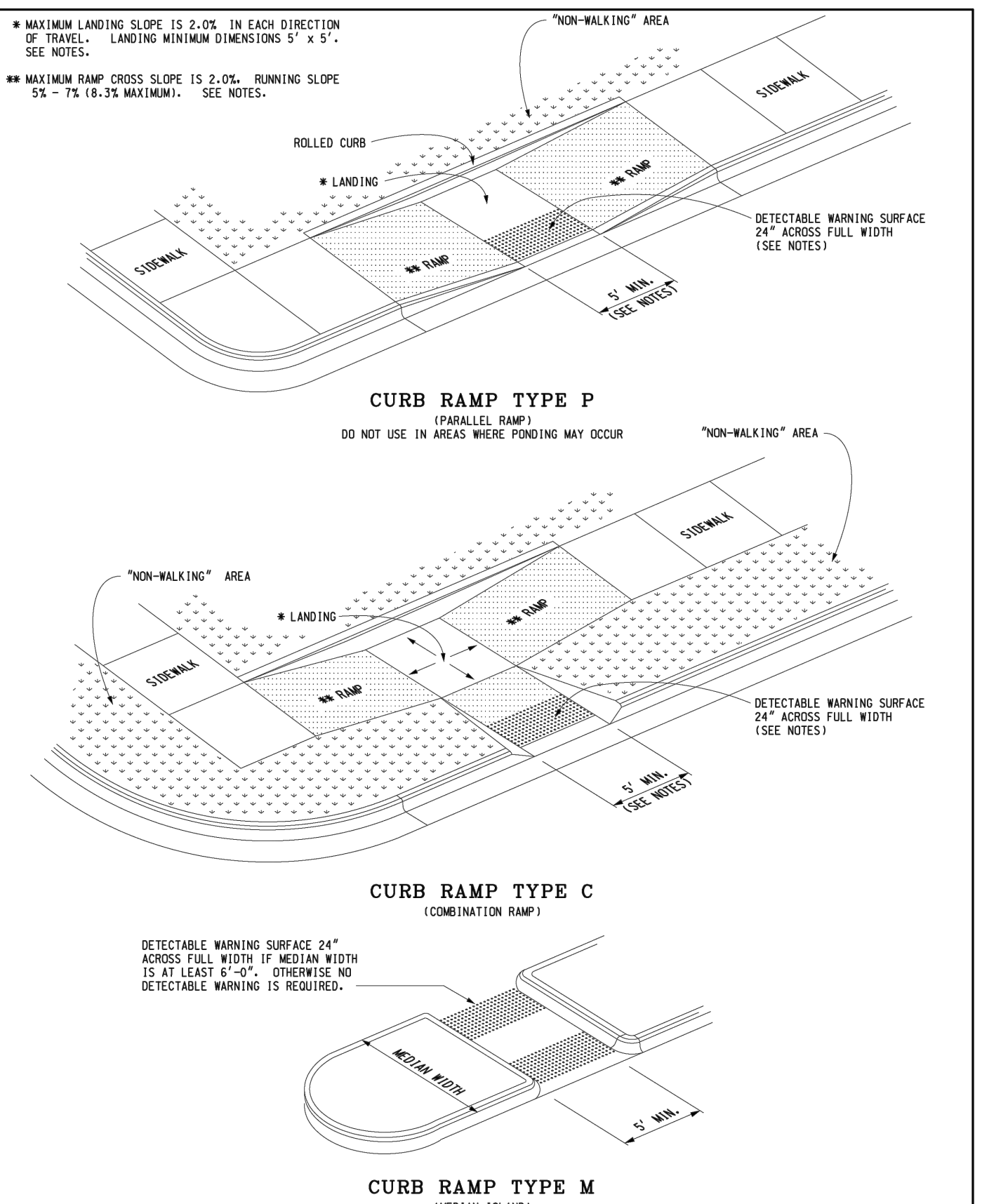
4-7-2022 5-8-2020 R-28-J SHEET 1 OF 7



MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR

CURB RAMP AND DETECTABLE WARNING DETAILS

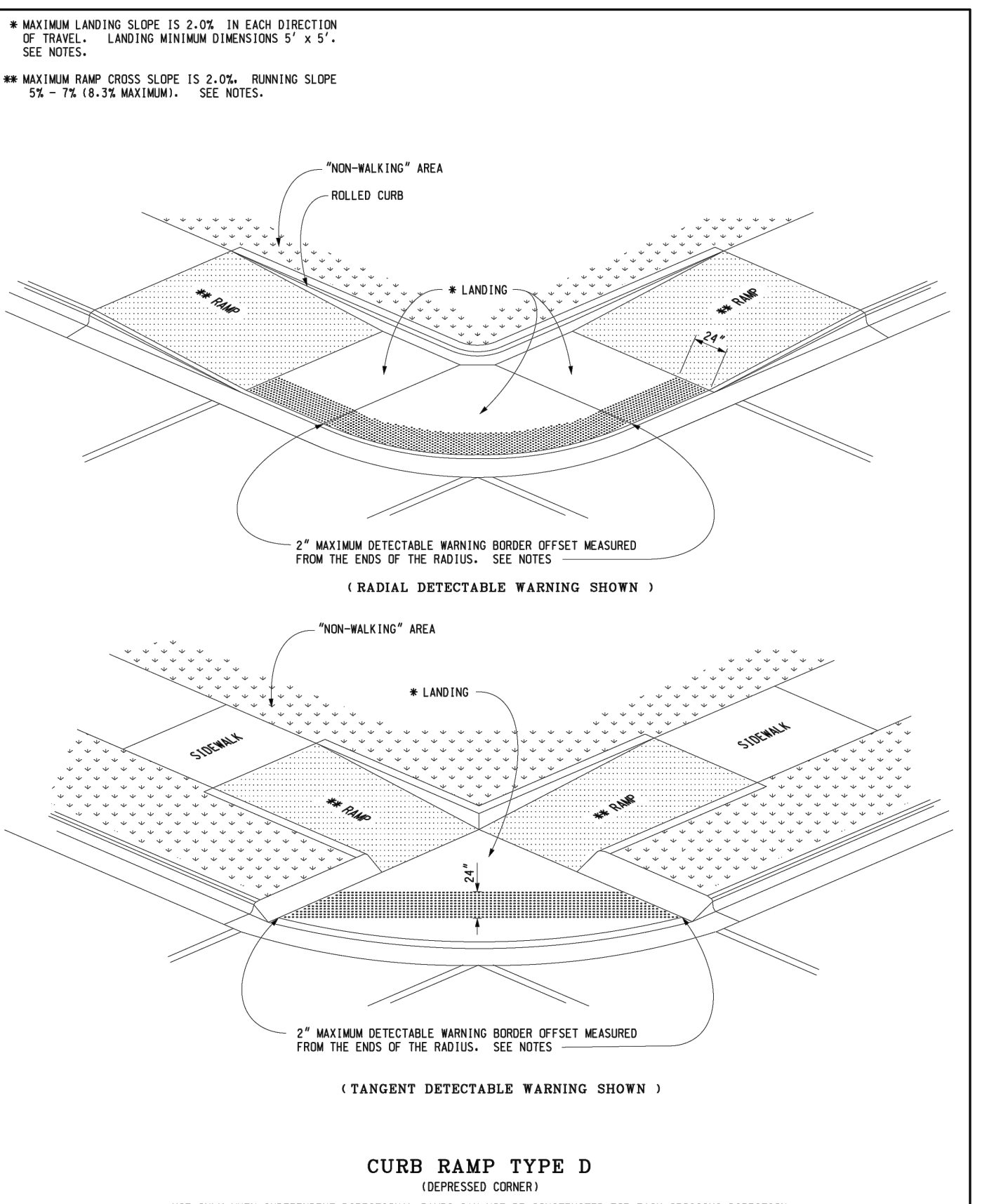
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MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR

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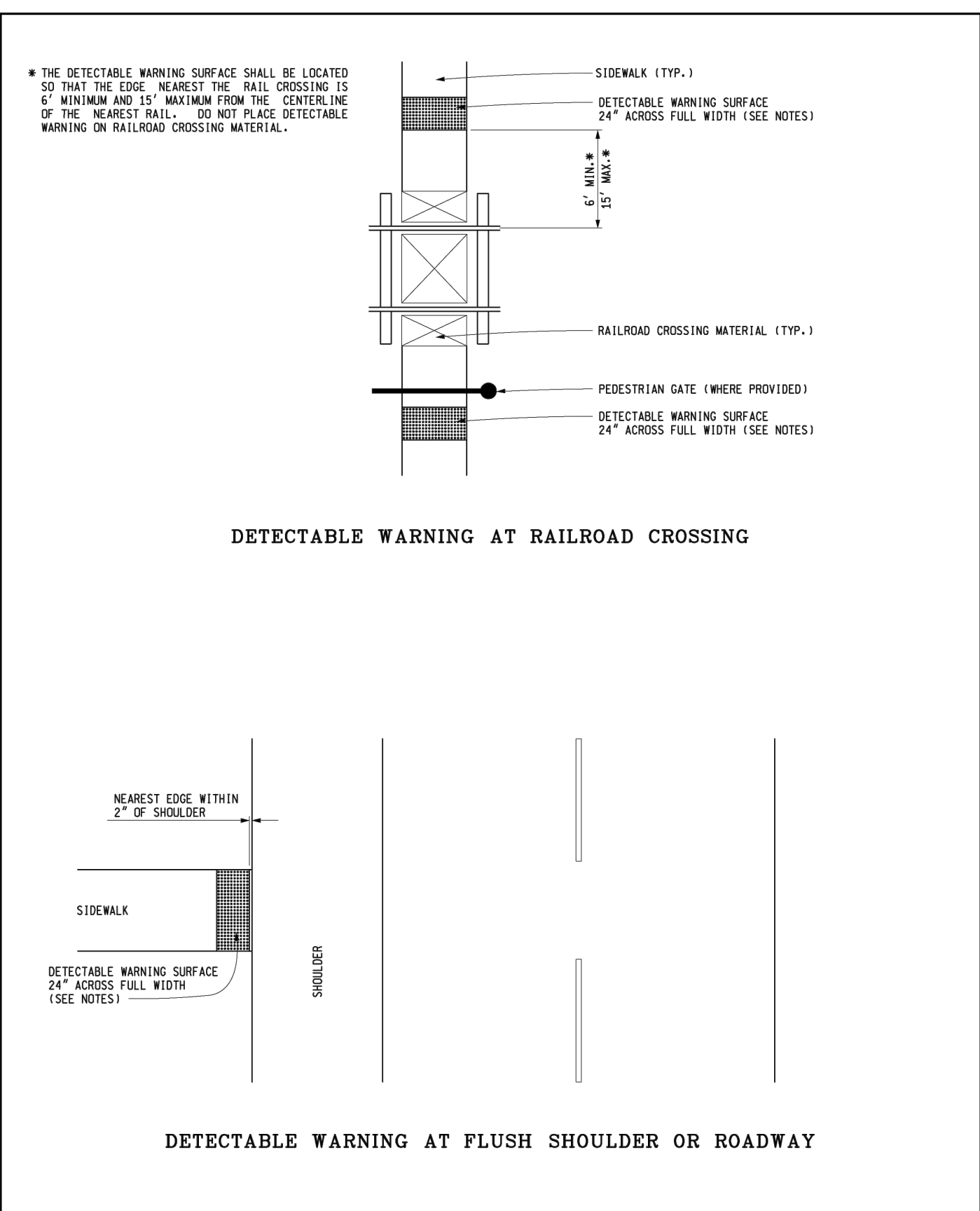
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MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR

CURB RAMP AND DETECTABLE WARNING DETAILS

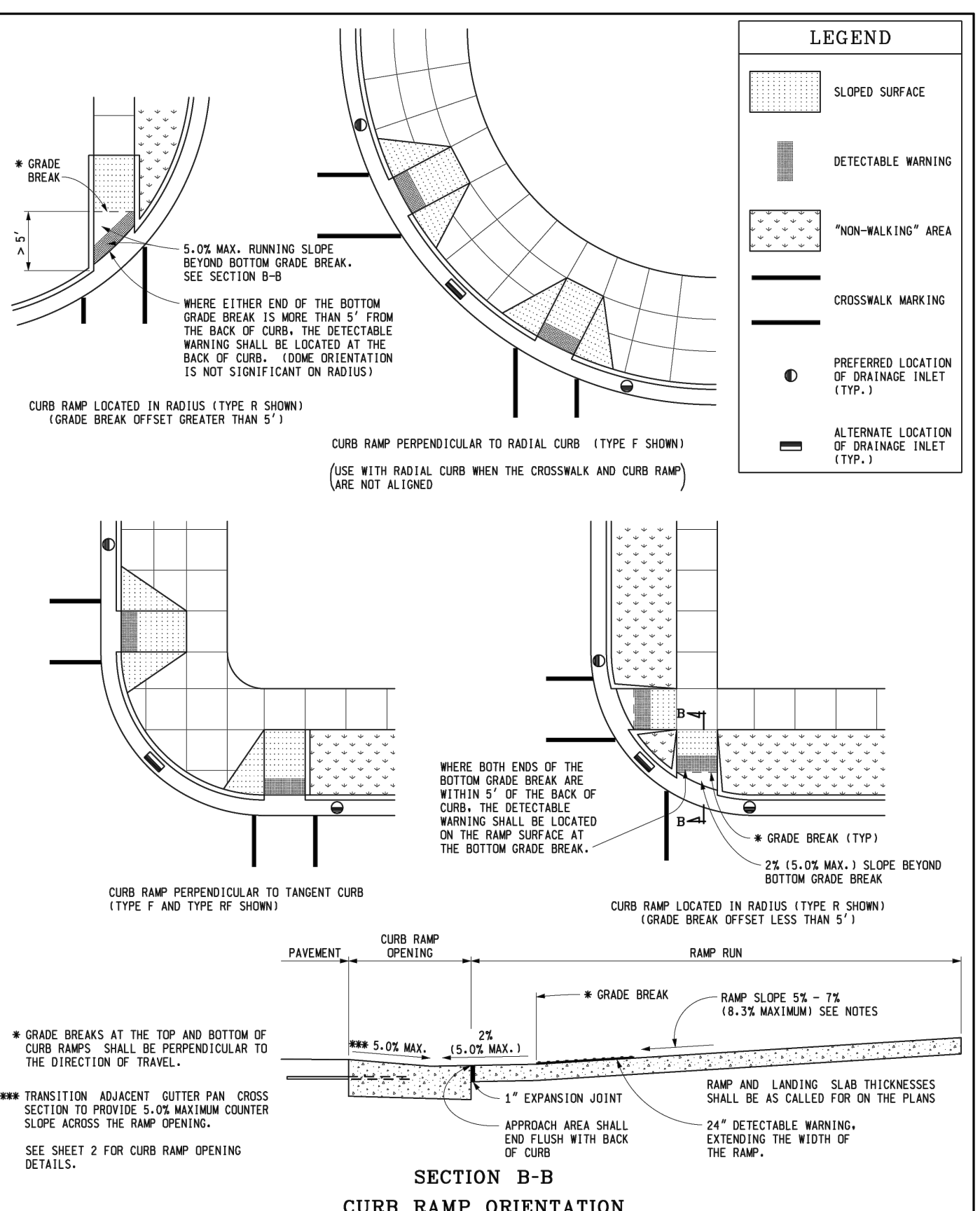
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MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR

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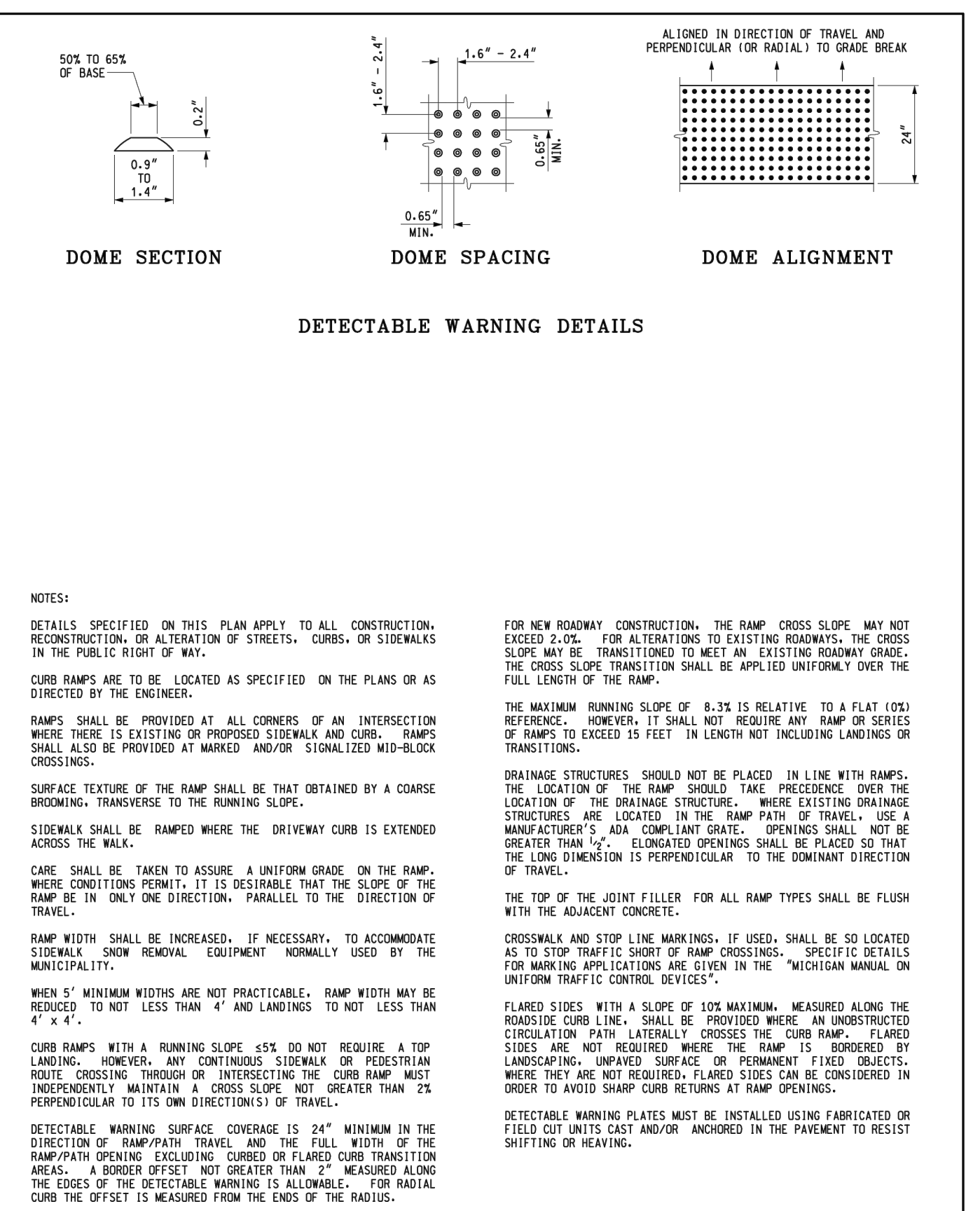
4-7-2022 5-8-2020 R-28-J SHEET 5 OF 7



MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR

CURB RAMP AND DETECTABLE WARNING DETAILS

4-7-2022 5-8-2020 R-28-J SHEET 6 OF 7



MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR

CURB RAMP AND DETECTABLE WARNING DETAILS

4-7-2022 5-8-2020 R-28-J SHEET 7 OF 7



HRC
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CONSULTING ENGINEERS SINCE 1915

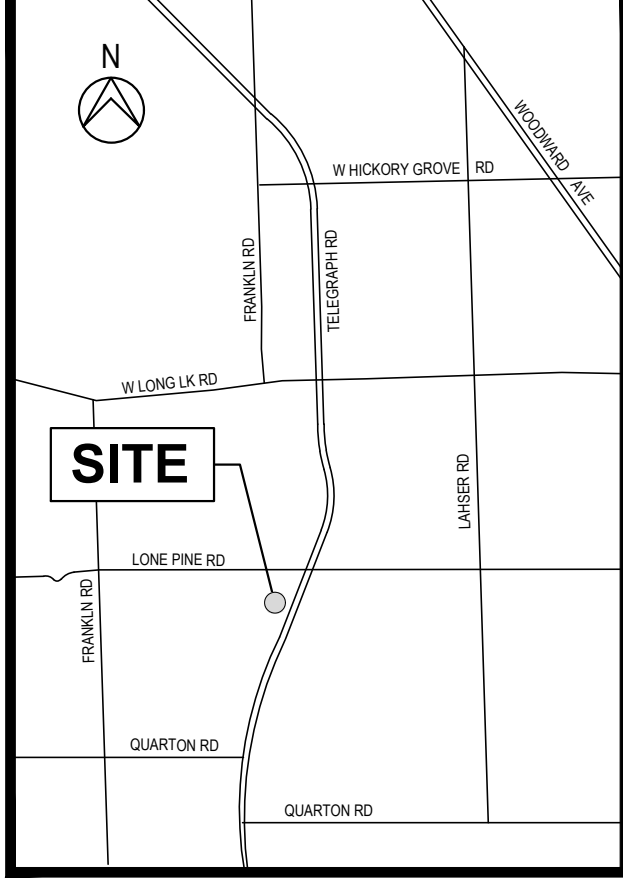
555 HULET DRIVE
BLOOMFIELD HILLS, MICH. P.O. BOX 824
48303-0824

PHONE: (248) 454-6300
FAX (1st Floor): (248) 454-6312
FAX (2nd Floor): (248) 454-6359

WEB SITE: www.hrcengr.com

DATE	ADDITIONS AND/OR REVISIONS
09-18-2024	ADDENDUM No. 1
09-03-2024	ISSUED FOR BIDS
08-01-2024	OWNER'S REVIEW
07-23-2024	OWNER'S REVIEW
07-15-2024	OWNER'S REVIEW

DATE	ADDITIONS AND/OR REVISIONS
DESIGNED	D.H.
DRAWN	D.H.
CHECKED	K.M.S.
APPROVED	K.M.S.



BLOOMFIELD TOWNSHIP

SENIOR CENTER PARKING LOT IMPROVEMENTS

OAKLAND COUNTY MICHIGAN

MDOT
SIDEWALK RAMP AND DETECTABLE WARNING DETAILS

HRC JOB NO. 20230762	SCALE N.T.S.
DATE March 2024	SHEET NO. C-03 OF 7

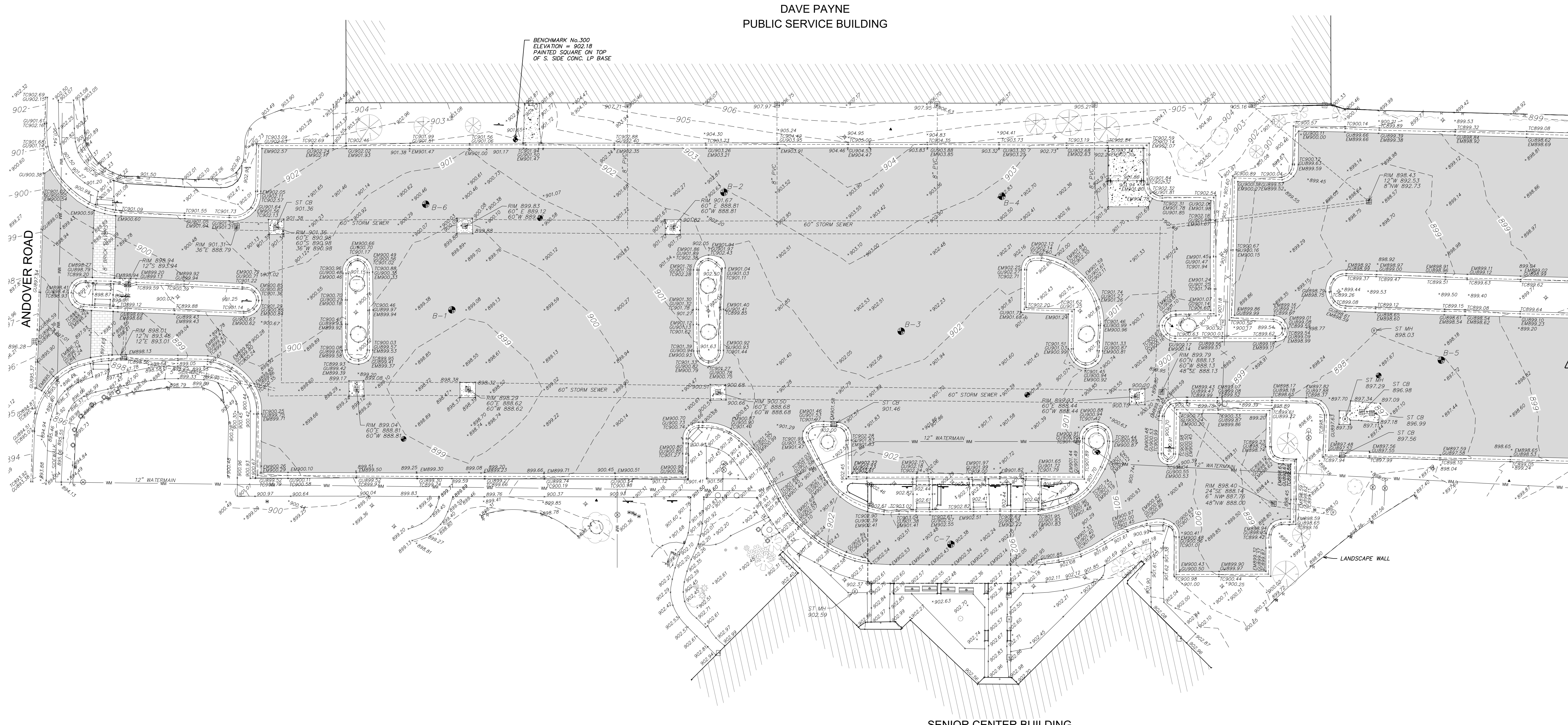
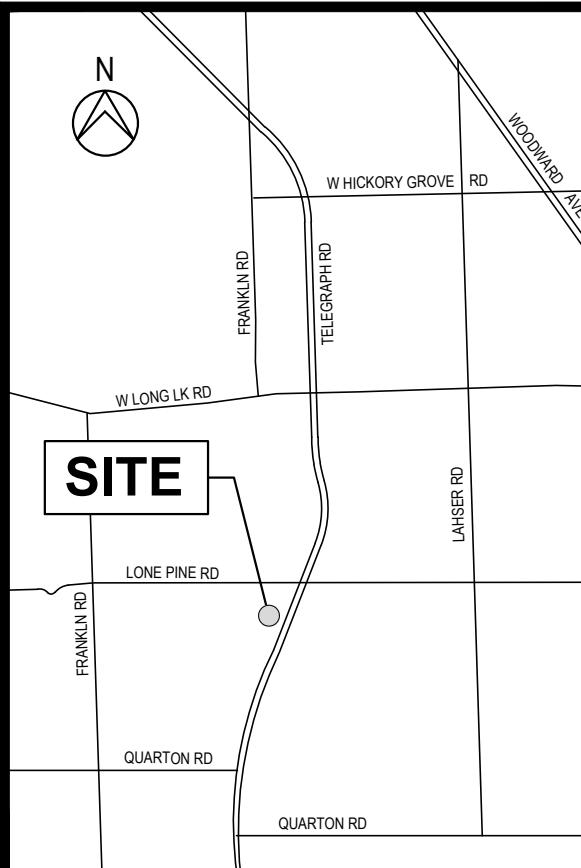


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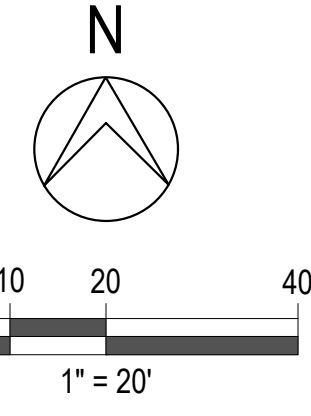
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DAVE PAYNE
 PUBLIC SERVICE BUILDING

SENIOR CENTER BUILDING



LEGEND - EX. TOPOGRAPHY

BUILDING	[Symbol]	PUMP STATION / SAN MH	[Symbol]
CONCRETE	[Symbol]	FIRE HYDRANT	[Symbol]
ASPHALT	[Symbol]	GATE & VALVE, & WELL	[Symbol]
GRAVEL	[Symbol]	CISTERN & WELL	[Symbol]
STORM	[Symbol]	WATER STOP BOX & SPRINKLER HEAD	[Symbol]
SANITARY	[Symbol]	WATER TOWER BASE & METER PIT	[Symbol]
SANITARY FORCE MAIN	[Symbol]	UTILITY POLE	[Symbol]
WATERMAIN	[Symbol]	LIGHT POLE	[Symbol]
GAS	[Symbol]	GUY WIRE ANCHOR	[Symbol]
UND. TELEPHONE	[Symbol]	UNDERGROUND MARKER	[Symbol]
UND. ELECTRICAL	[Symbol]	RISER/CABLE-TELE	[Symbol]
OVERHEAD ELECTRICAL	[Symbol]	GAS BOX & BLOW OFF	[Symbol]
UND. FIBER OPTIC	[Symbol]	SIGNS & SIGN POST	[Symbol]
SO. & RD. CATCH BASINS & INLETS IN PAVEMENT	[Symbol]	DECIDUOUS TREE	[Symbol]
STORM MANHOLE & PIPE END	[Symbol]	DECIDUOUS SHRUB	[Symbol]
UNSPECIFIED MH.	[Symbol]	CONIFEROUS TREE	[Symbol]
RISER & DOWN SPOUT	[Symbol]	CONIFEROUS SHRUB	[Symbol]

NOTE:
 SEE SHEET C-17 FOR
 SITE SOIL BORING DATA

NOTICE:
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BLOOMFIELD TOWNSHIP

**SENIOR CENTER
 PARKING LOT
 IMPROVEMENTS**

OAKLAND COUNTY MICHIGAN

**EXISTING TOPOGRAPHY
 PLAN**

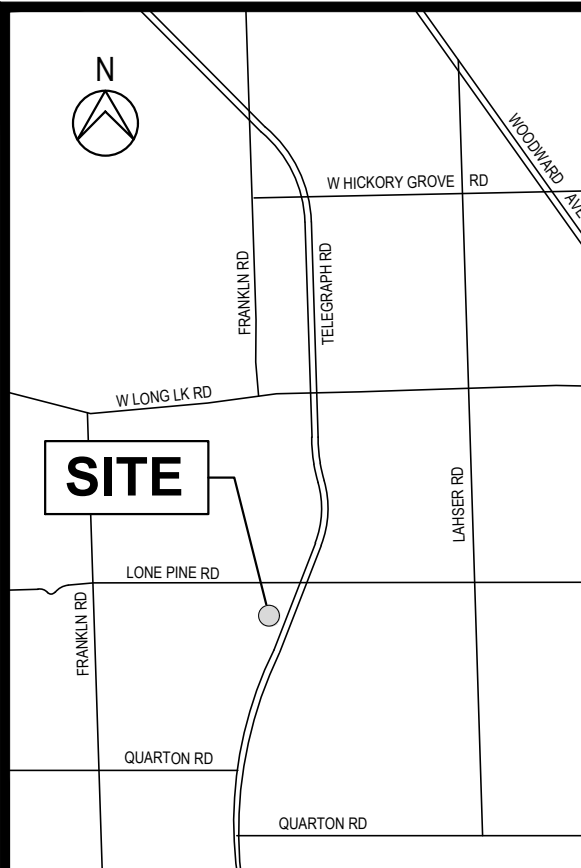
HRC JOB NO. 20230762	SCALE 1" = 20'
DATE March 2024	SHEET NO. C-05 OF

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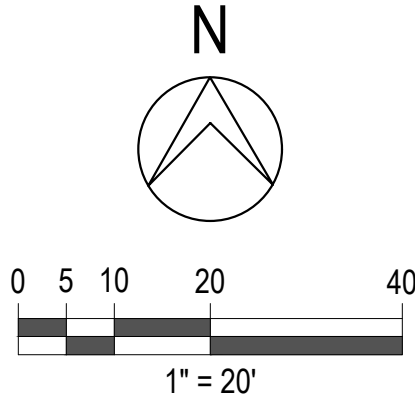
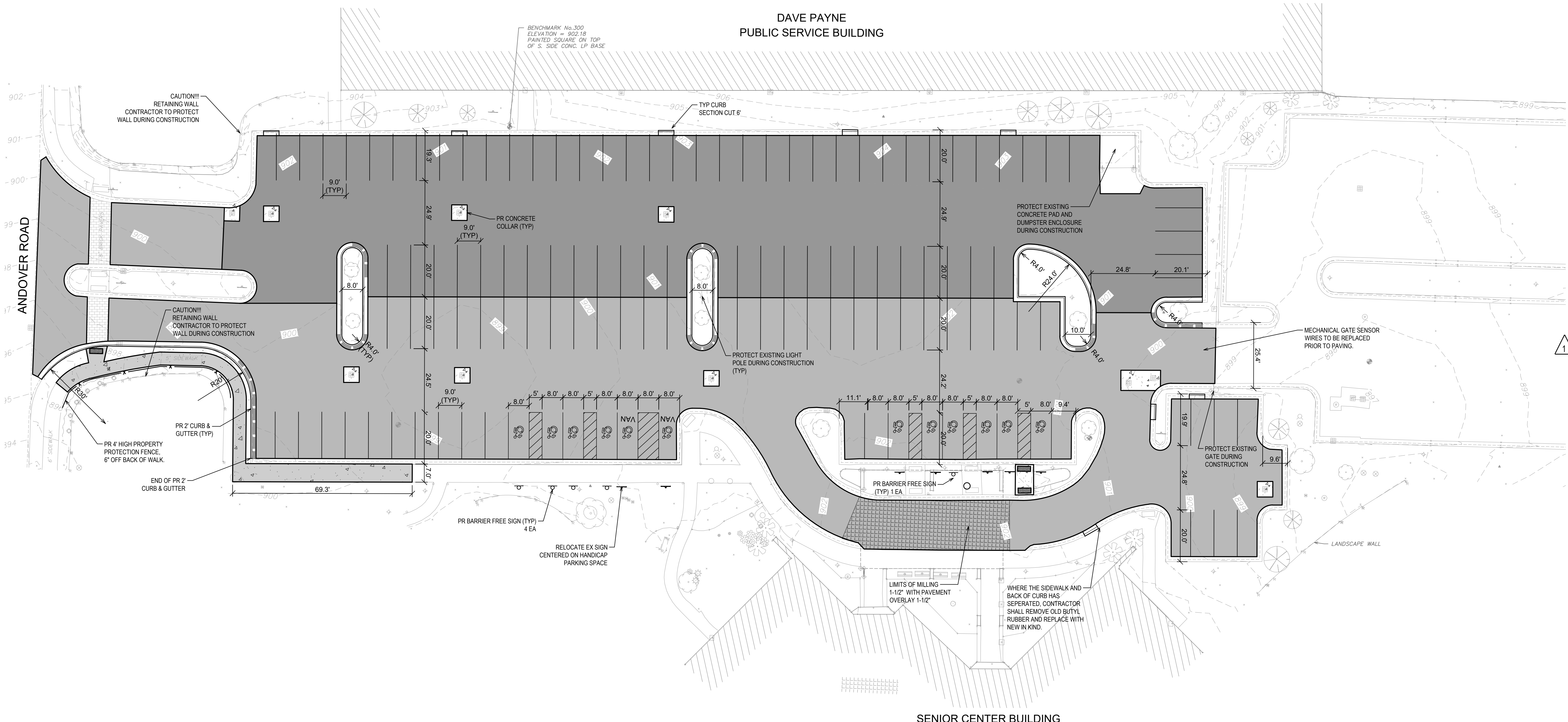
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**DAVE PAYNE
PUBLIC SERVICE BUILDING**

SENIOR CENTER BUILDING



LEGEND

[Hatched Box]	EXISTING BUILDING / STRUCTURE	[Dotted Box]	PROP. 4" PROPERTY PROTECTION FENCE
[Stippled Box]	EXISTING CONCRETE PAVEMENT	[Dotted Box]	PROPOSED HEAVY-DUTY CONCRETE PAVEMENT
[Horizontal Lines]	EXISTING ASPHALT PAVEMENT	[Dotted Box]	PROPOSED CONCRETE PAVEMENT / SIDEWALK
[Brick Pattern]	EXISTING BRICK SIDEWALK	[Dotted Box]	PROPOSED BITUMINOUS PAVEMENT
[Double Line]	PROP. 2" CONC CURB & GUTTER - DETAIL F4	[Dotted Box]	PROPOSED BITUMINOUS PAVEMENT - FULL DEPTH
[Single Line]	PROP. 2" CONC CURB & GUTTER - DETAIL F4 MOD.	[Dotted Box]	PROPOSED MILL 1-1/2" & PAVEMENT - 1-1/2" OVERLAY

ITEM DESCRIPTION	QTY	UNIT
Aggregate Base, 21AA	1120	TON
Curb, 24" F4	460	LFT
Concrete Pavement, 7" Non-Reinforced	432	SFT
Remove & Replace Concrete Sidewalk, 4"	450	SFT
Remove & Replace Concrete Sidewalk, 6"	84	SFT
HMA, 4EML	850	TON
HMA, 5EML	690	TON
Barrier Free Signage	5	EA
Pavement Marking, 4" Striping & H.C. Logos	1	L.S.

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BLOOMFIELD TOWNSHIP

SENIOR CENTER PARKING LOT IMPROVEMENTS

OAKLAND COUNTY MICHIGAN

PROPOSED SITE PLAN

HRC JOB NO. 20230762	SCALE 1" = 20'
DATE March 2024	SHEET NO. C-06 OF

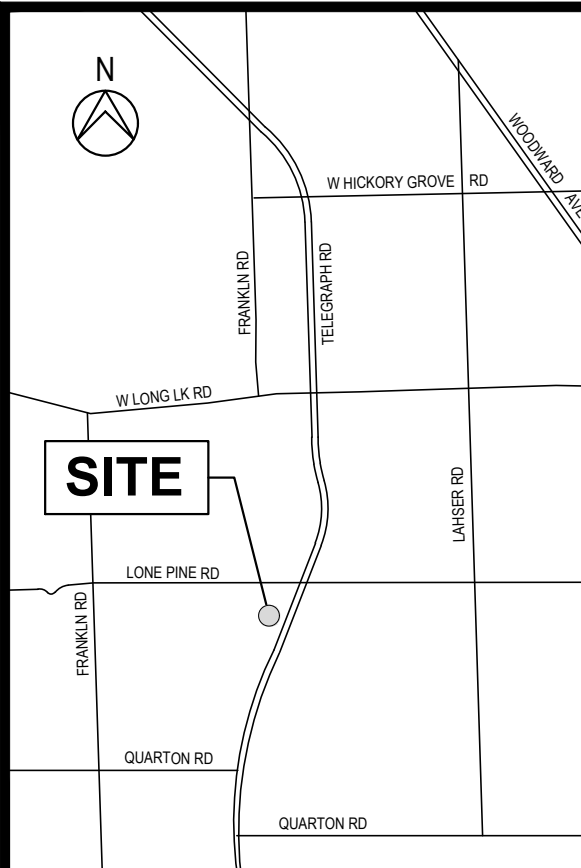
ORIGINAL PLOT SIZE: ARCH D (24.00 X 36.00 INCHES)
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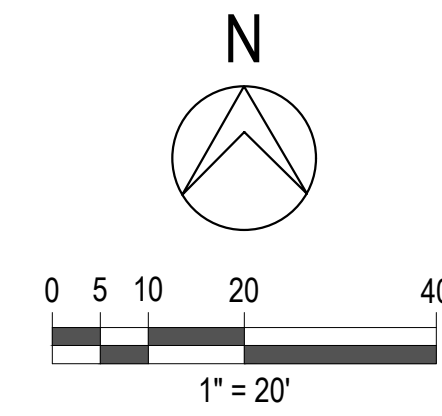


BLOOMFIELD TOWNSHIP
SENIOR CENTER
PARKING LOT
IMPROVEMENTS

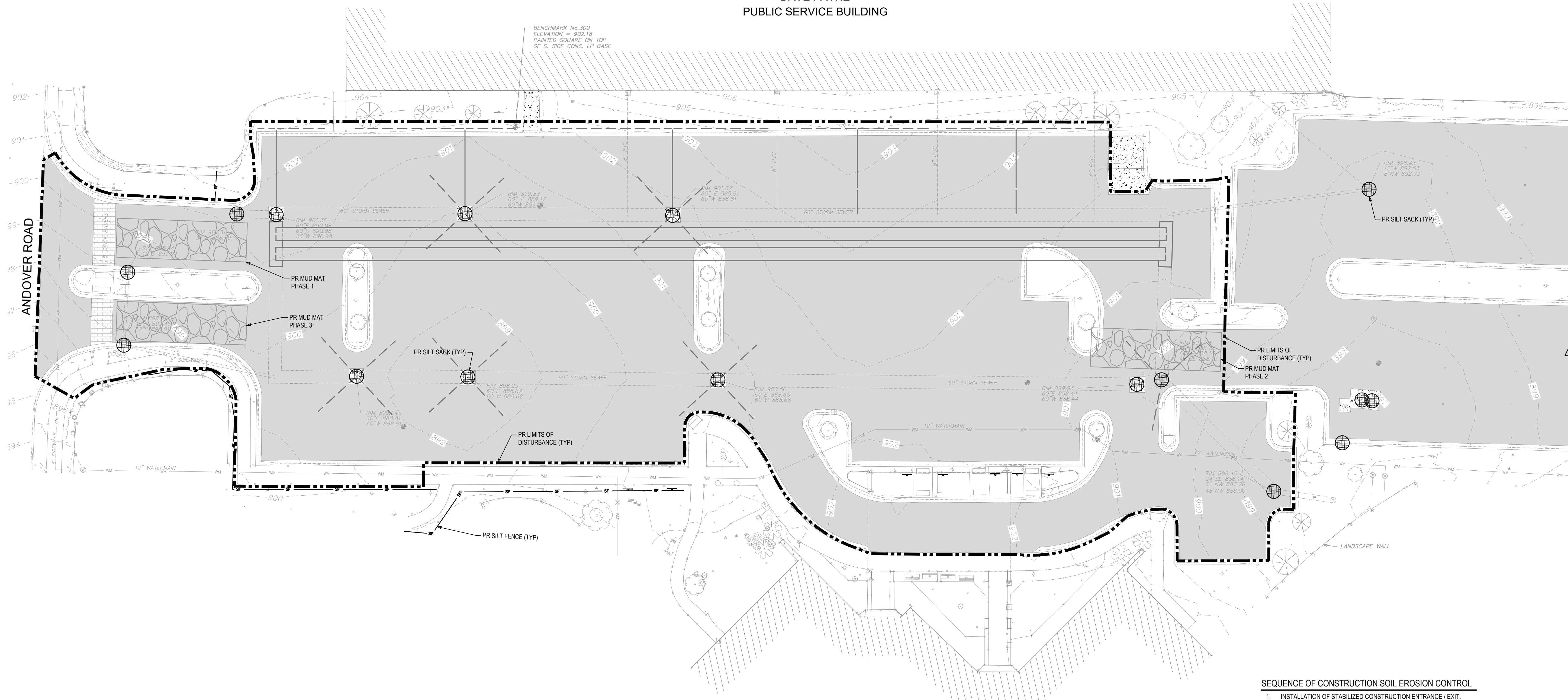
OAKLAND COUNTY MICHIGAN

PROPOSED SOIL EROSION
AND
SEDIMENTATION CONTROL
PLAN

HRC JOB NO.	20230762	SCALE	1" = 20'
DATE	March 2024	SHEET NO.	C-07 OF



DAVE PAYNE
PUBLIC SERVICE BUILDING



SOIL EROSION CONTROL NOTES

- ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO STANDARDS AND SPECIFICATIONS OF THE OAKLAND COUNTY WATER RESOURCES COMMISSIONER AND THE BLOOMFIELD TWP.
- DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR FOR EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES, AND ANY NECESSARY REPAIRS SHALL BE PERFORMED WITHOUT DELAY. THE SOIL EROSION CONTROLS WILL BE MAINTAINED WEEKLY AND AFTER EVERY STORM EVENT BY THE CONTRACTOR.
- ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR IN WATERWAYS.
- CONTRACTOR SHALL APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES WHEN REQUIRED AND AS DIRECTED ON THESE PLANS. TEMPORARY MEASURES SHALL BE REMOVED AS SOON AS PERMANENT STABILIZATION OF SLOPES, DITCHES, AND OTHER EARTH CHANGES HAVE BEEN ACCOMPLISHED PER OAKLAND COUNTY DRAIN COMMISSIONER'S STANDARDS.
- STAGING THE WORK WILL BE DONE BY THE CONTRACTOR AS DIRECTED IN THESE PLANS AND AS REQUIRED TO ENSURE PROGRESSIVE STABILIZATION OF DISTURBED EARTH.
- SOIL EROSION CONTROL PRACTICES SHALL BE ESTABLISHED IN THE EARLY STAGES OF CONSTRUCTION BY THE CONTRACTOR. SEDIMENT CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTING OF SILT OFF THE SITE.
- FAILURE TO COMPLY WITH APPROVED SOIL EROSION AND SEDIMENTATION MEASURES MAY RESULT IN WORK STOPPAGE BY APPROPRIATE AUTHORITY.
- CONTRACTOR SHALL CLEAN OUT ALL STORM STRUCTURES UPON COMPLETION OF THE PROJECT.
- CONTRACTOR SHALL MAINTAIN AND SWEEP ANDOVER RD ON A DAILY BASIS.

LEGEND

	EXISTING BUILDING / STRUCTURE		EXISTING GAS MAIN
	EXISTING CONCRETE PAVEMENT		EXISTING UNDERGROUND ELECTRICAL
	EXISTING ASPHALT PAVEMENT		EXISTING OVERHEAD ELECTRICAL
	EXISTING BRICK SIDEWALK		EXISTING UNDERGROUND TELEPHONE
	EXISTING STORM SEWER AND STRUCTURES		EXISTING UNDERGROUND FIBER OPTIC
	EXISTING SANITARY SEWER AND STRUCTURES		PROPOSED LIMITS OF DISTURBANCE
	EXISTING WATERMAIN AND STRUCTURES		PROPOSED SILT SACK ON STORM INLETS
			PROPOSED SILT FENCE
			PR. STORM SEWER AND STRUCTURES

SEQUENCE OF CONSTRUCTION SOIL EROSION CONTROL

- INSTALLATION OF STABILIZED CONSTRUCTION ENTRANCE / EXIT.
- ESTABLISH APPROVED SOIL EROSION CONTROL MEASURES AND MUD TRACKING MAT. ALL SOIL EROSION MEASURES MUST BE MAINTAINED THROUGHOUT CONSTRUCTION.
- ALL TRACKING OF MUD ONTO PAVEMENTS SHALL BE CLEANED IMMEDIATELY AFTER IT OCCURS. ALL PAVEMENTS TO BE SWEEPED ON A DAILY BASIS OR MORE FREQUENTLY IF DIRECTED BY OAKLAND COUNTY OR BLOOMFIELD TWP.
- FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS SHALL BE MADE IMMEDIATELY.
- PAVEMENT REMOVAL AS SHOWN ON REMOVAL PLANS.
- CONSTRUCT PROPOSED UNDERGROUND UTILITIES.
- INSTALL BASE COURSE FOR ALL CURBS, PAVEMENT AND SIDEWALK PER PLANS.
- INSTALL CURB & GUTTER AND SIDEWALKS PER PLANS.
- INSTALL PAVEMENT PER PLANS.
- INSTALL ALL FINAL LAWN RESTORATION AND LANDSCAPING.
- REMOVE ALL TEMPORARY SOIL EROSION CONTROL MEASURES ONCE THE SITE IS STABILIZED.

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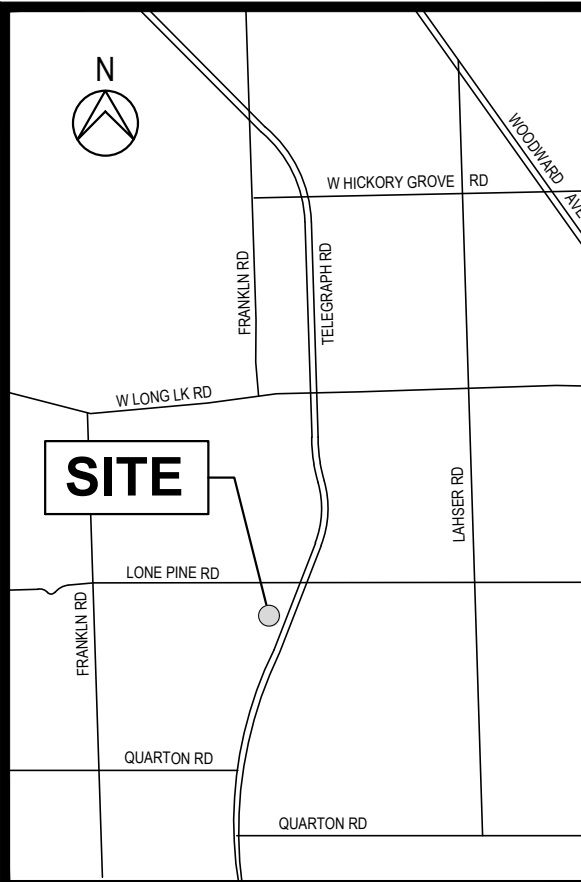
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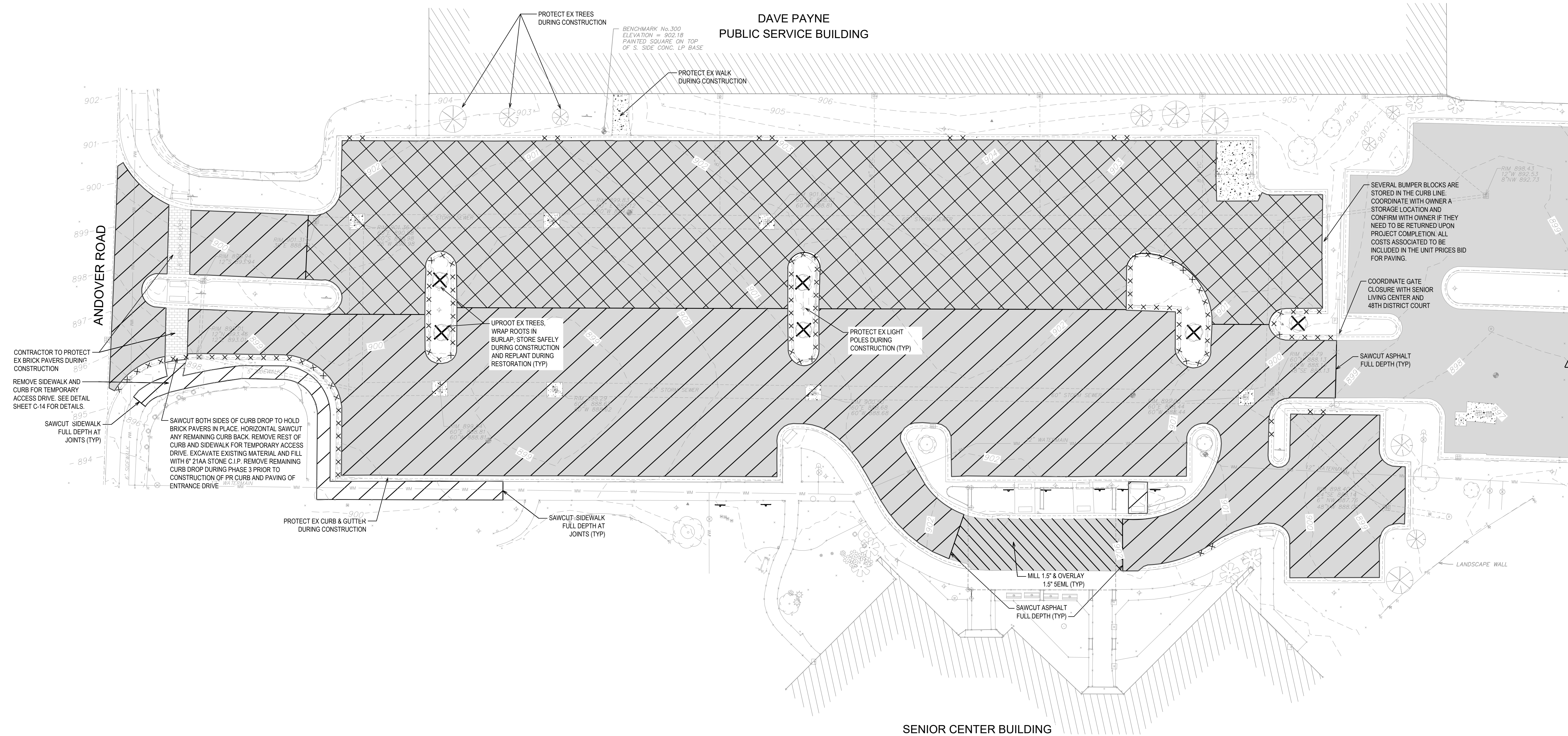
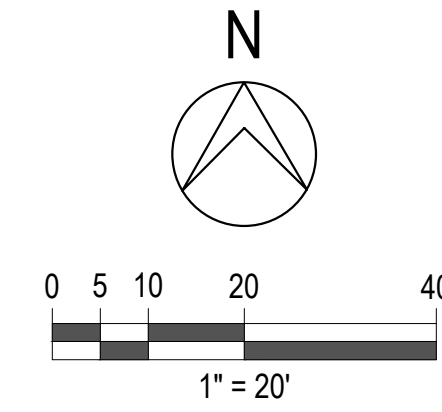


BLOOMFIELD TOWNSHIP
SENIOR CENTER PARKING LOT IMPROVEMENTS

OAKLAND COUNTY MICHIGAN

PROPOSED DEMOLITION PLAN

HRC JOB NO. 20230762	SCALE 1" = 20'
DATE March 2024	SHEET NO. C-08 OF



LEGEND

	EXISTING BUILDING / STRUCTURE		EXISTING ELECTRIC HANDHOLES
	EXISTING CONCRETE PAVEMENT		EXISTING UNDERGROUND TELEPHONE
	EXISTING ASPHALT PAVEMENT		EXISTING UNDERGROUND FIBER OPTIC
	EXISTING BRICK SIDEWALK		EX. PAVEMENT REMOVAL - FULL DEPTH SAWCUT
	EXISTING STORM SEWER AND STRUCTURES		EX. PAVEMENT REMOVAL - SAWCUT
	EXISTING SANITARY SEWER AND STRUCTURES		EX. PAVEMENT MILL & OVERLAY
	EXISTING WATERMAIN AND STRUCTURES		EX. CURB REMOVAL - FULL DEPTH SAWCUT
	EXISTING GAS MAIN		EX. UTILITY STRUCTURE & EX. LIGHT POLE REMOVAL
	EXISTING UNDERGROUND ELECTRICAL		EX. TREE / SHRUB REMOVAL
	EXISTING OVERHEAD ELECTRICAL		

ITEM DESCRIPTION	QTY	UNIT
Uproot, Wrap Roots in Burlap, Store & Replant Trees	6	EA
Pavement, Milling 1-1/2"	130	SYD
Pavement, Removal	5550	SYD
Curb, Removal	460	LFT

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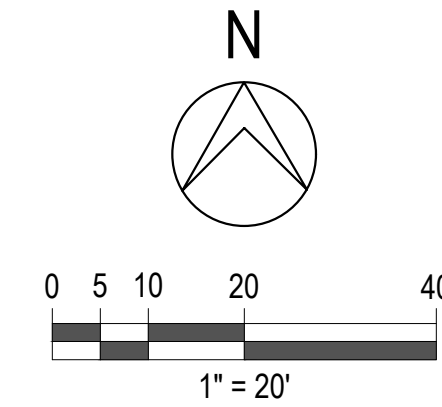
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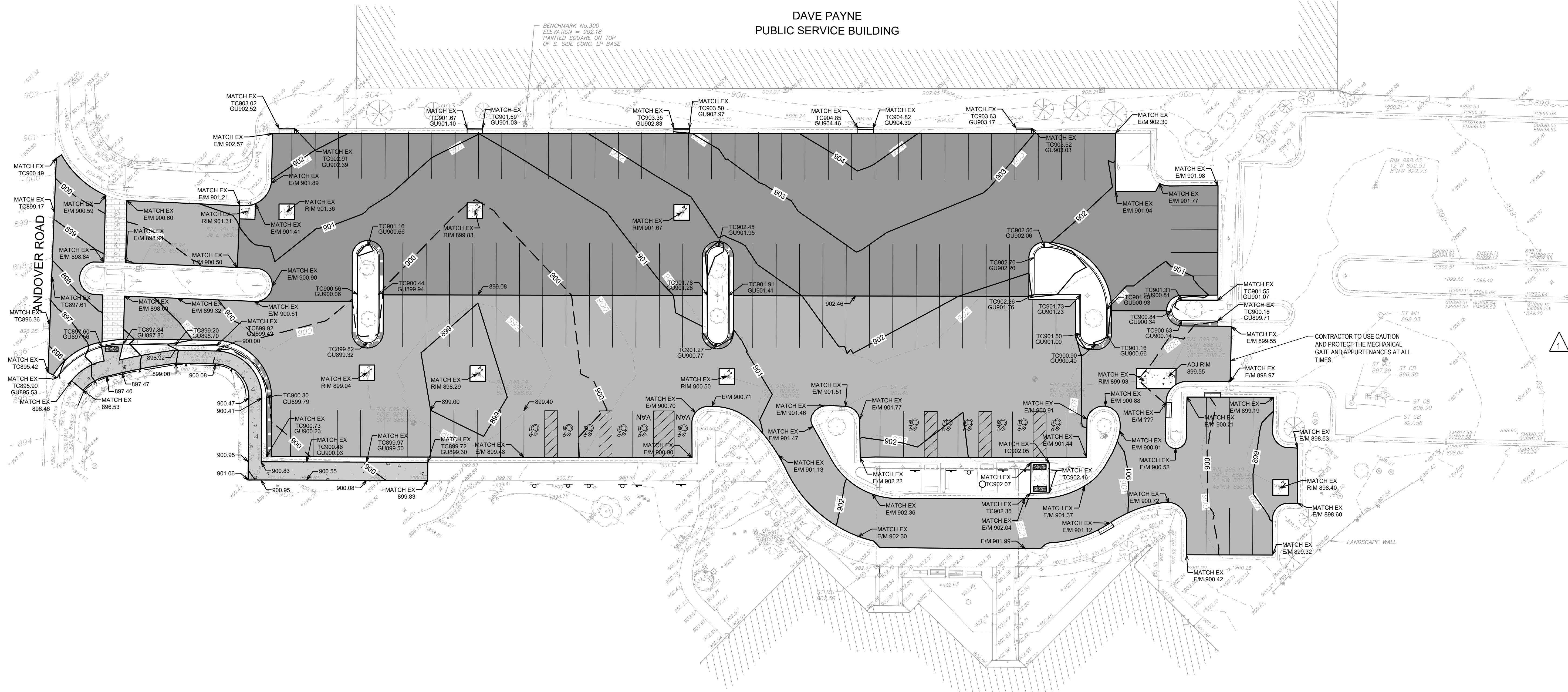
BLOOMFIELD TOWNSHIP
 SENIOR CENTER
 PARKING LOT
 IMPROVEMENTS

HRC JOB NO.	20230762	SCALE	1" = 20'
DATE	March 2024	SHEET NO.	C-09 OF



DAVE PAYNE
 PUBLIC SERVICE BUILDING

SENIOR CENTER BUILDING



LEGEND

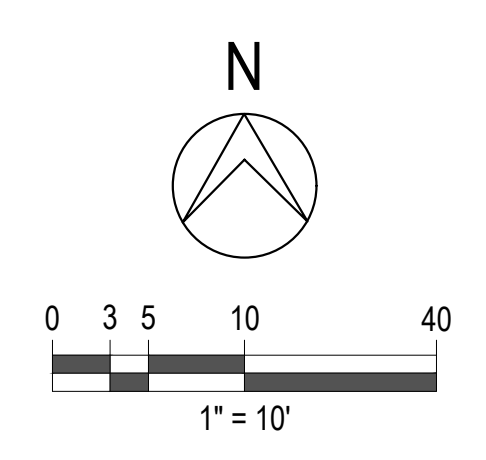
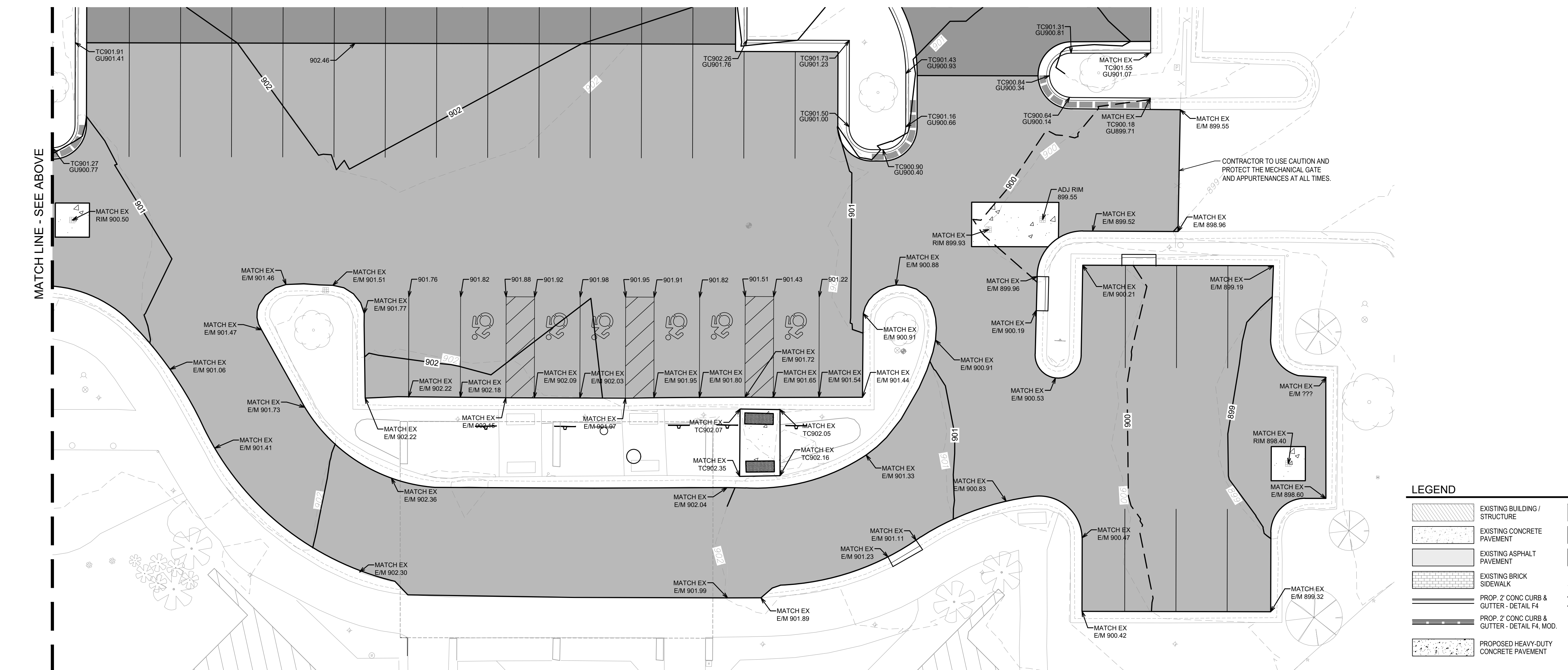
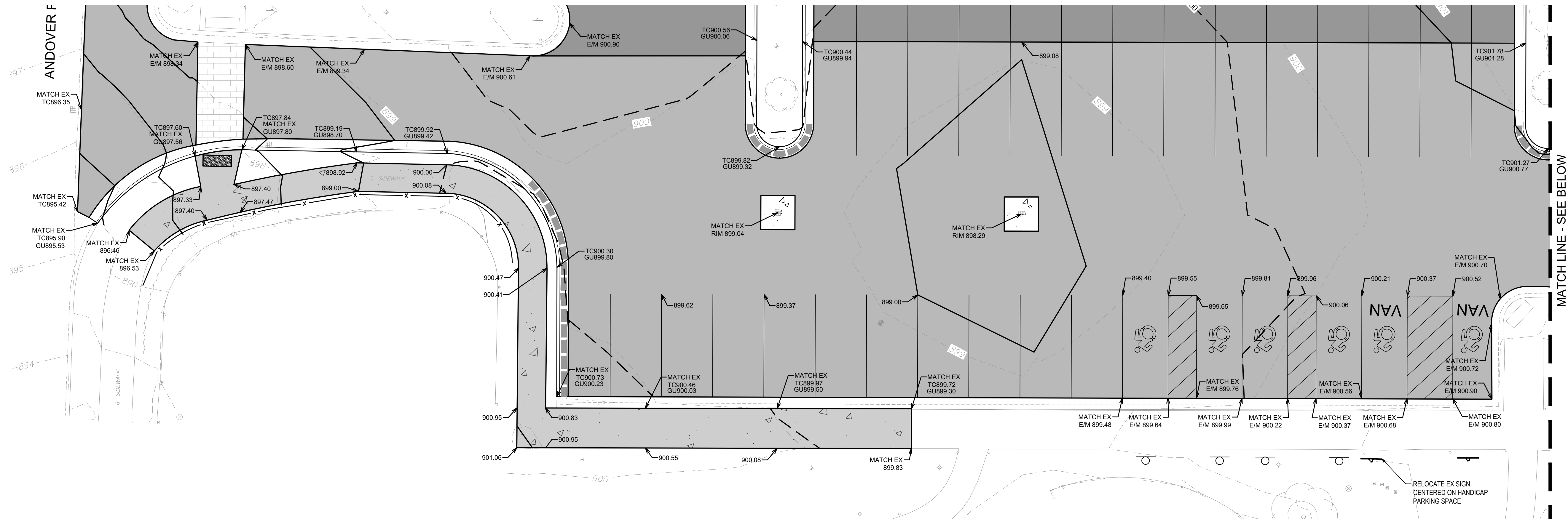
	EXISTING BUILDING / STRUCTURE		PROPOSED CONCRETE PAVEMENT / SIDEWALK
	EXISTING CONCRETE PAVEMENT		PROPOSED BITUMINOUS PAVEMENT
	EXISTING ASPHALT PAVEMENT		PROPOSED BITUMINOUS PAVEMENT - FULL DEPTH
	EXISTING BRICK SIDEWALK		+ 803.77 EXISTING GRADES
	PROP. 2' CONC CURB & GUTTER - DETAIL F4		- 805 EXISTING CONTOURS
	PROP. 2' CONC CURB & GUTTER - DETAIL F4, MOD.		710 PROP. MAJOR CONTOUR
	PROPOSED HEAVY DUTY CONCRETE PAVEMENT		711 PROP. MINOR CONTOUR
			TC000.00 PROP. TOP OF CURB & GUTTER GRADES
			E/M 000.00 EDGE OF METAL GRADE
			000.00 PROP. SPOT GRADES

NOTE:
 CONTRACTOR SHALL RESTORE ALL DISTURBED LANDSCAPING AND IRRIGATION TO EQUAL OR BETTER CONDITION

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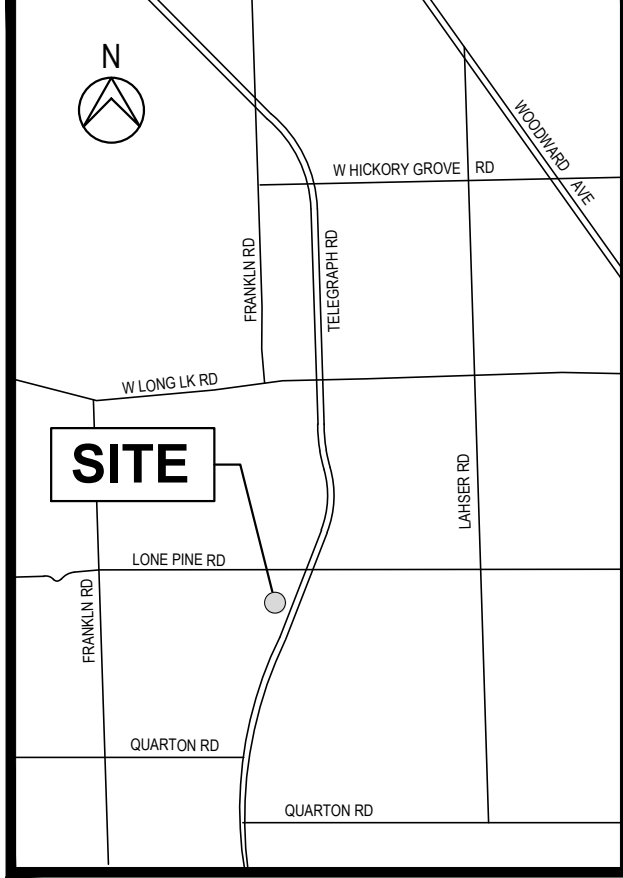


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LEGEND

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	EXISTING CONCRETE PAVEMENT		PROPOSED BITUMINOUS PAVEMENT
	EXISTING ASPHALT PAVEMENT		PROPOSED BITUMINOUS PAVEMENT - FULL DEPTH
	EXISTING BRICK SIDEWALK		EXISTING GRADES
	PROP. 2' CONC CURB & GUTTER - DETAIL F4		EXISTING CONTOURS
	PROP. 2' CONC CURB & GUTTER - DETAIL F4, MOD.		PROP. MAJOR CONTOUR
	PROPOSED HEAVY-DUTY CONCRETE PAVEMENT		PROP. MINOR CONTOUR
			PROP. TOP OF CURB & GUTTER GRADES
			EDGE OF METAL GRADE
			PROP. SPOT GRADES

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SENIOR CENTER PARKING LOT IMPROVEMENTS

OAKLAND COUNTY MICHIGAN

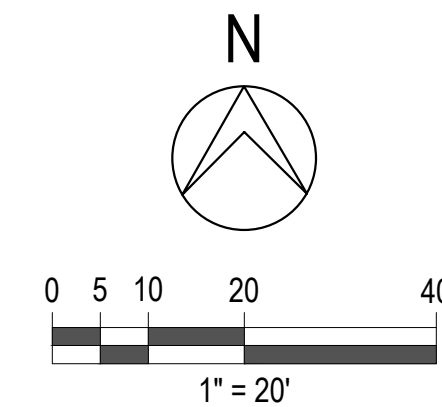
PROPOSED DETAILED GRADING PLAN

HRC JOB NO. 20230762	SCALE 1" = 10'
DATE March 2024	SHEET NO. C-10 OF

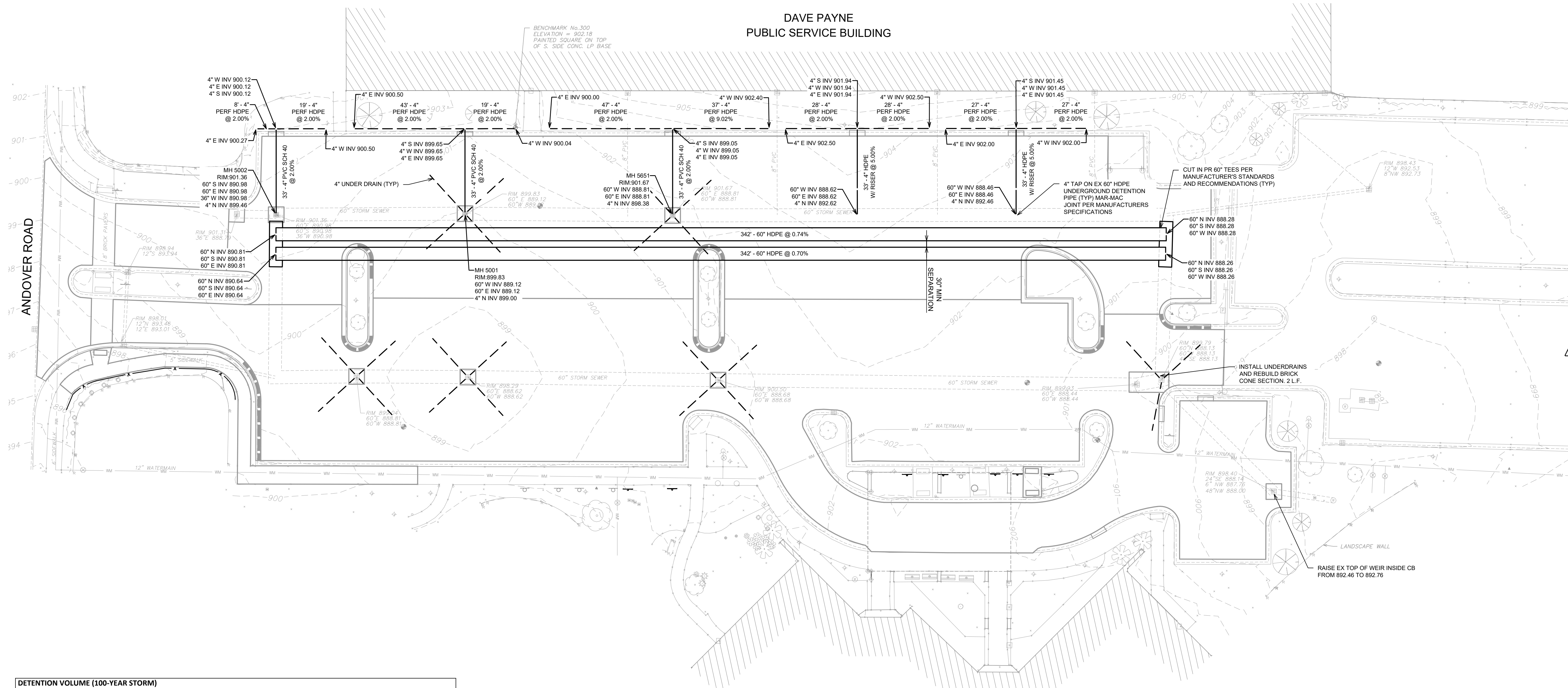
ORIGINAL PLOT SIZE: ARCH D (24.00 X 36.00 INCHES)
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 CONSULTING ENGINEERS SINCE 1915
 555 HULET DRIVE P.O. BOX 824
 BLOOMFIELD HILLS, MICH. 48303 - 0824
 PHONE: (248) 454-6300
 FAX (1st Floor): (248) 454-6312
 FAX (2nd Floor): (248) 454-6359
 WEB SITE: www.hrcengr.com



**DAVE PAYNE
 PUBLIC SERVICE BUILDING**



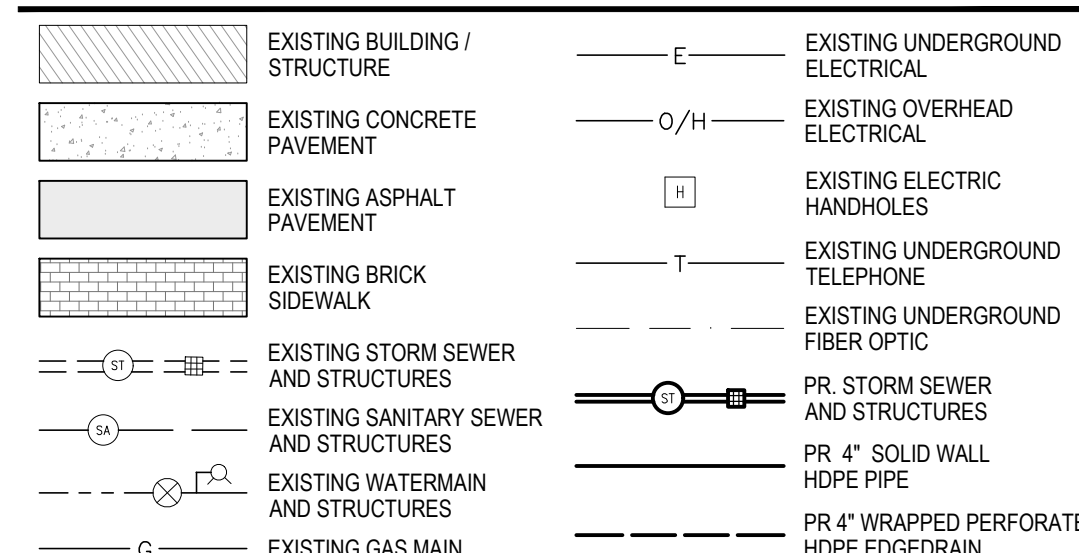
SENIOR CENTER BUILDING

DETENTION VOLUME (100-YEAR STORM)			
AS	ACREAGE		3.11 AC
ASP	ACREAGE - PERVIOUS SURFACE		0.33 AC
ASI	ACREAGE - IMPVIOUS SURFACE		2.78 AC
CP	RUNOFF COEFF - PERVIOUS SURFACE		0.20
CI	RUNOFF COEFF - IMPVIOUS SURFACE		0.90
CS	RUNOFF COEFF	$[(ASP*CP)+(ASI*CI)]/AS$	0.83
QVRR	ALLOWABLE OUTFLOW	$1.1055-0.206*LN(AS)$ As<2.0 Ac, cap at 1.0 CFS/Ac As>2.0 Ac, 0.15 CFS/Ac	0.47 CFS/AC
Q100P	100 YR ALLOWABLE FLOW	QVRR*AS	1.45 CFS
TC	TIME OF CONCENTRATION		10.00 MIN
I100	100-YR RAINFALL INTENSITY	$83.3/(TC+9.17)^{0.81}$	7.62
Q100IN	100-YR PEAK FLOW RATE	$C*100*AS$	19.66 CFS
V100R	100-YR RUNOFF VOLUME	$18,985*C*AS$	49,006 CF
R	STORAGE CURVE FACTOR	$0.206-0.15*LN(Q100P/Q100IN)$	0.60
VCP-R	REQUIRED CHANNEL PROTECTION VOLUME CONTROL	$4,719*C*AS$	12,181 CF
Ksat	INFILTRATION RATE		- IN/HR
Sf	Ksat SAFETY FACTOR		0.5
DDP	DETENTION PIPE DIAMETER		- IN
LDP	LENGTH OF DETENTION PIPE		- FT
At	AVERAGE INFILTRATION AREA	$(DDP/12)*LDP$	- SF
Vi	INFILTRATION VOLUME	$Ksat*Sf*6*At/12$ in	- CF

VED	Extended Detention Volume	6,897*C*A	17,803 CF
VCP-P	PROVIDED CHANNEL PROTECTION VOLUME CONTROL		- CF
V100D	100-YR DETENTION VOLUME	Max of (V100R)-VCP-P or VED	29,255 CF
LEP	LENGTH OF EX PIPE		808 FT
DEP	DIAMETER OF EX PIPE		60 IN
AEP	AREA OF EX PIPE		19.6 SF
V100D-P-EX	EX 100-YR DETENTION VOLUME PROVIDED		15,865 CF
V100D-P-ADD	ADD 100-YR DETENTION VOLUME REQUIRED		13,390 CF
DPP	DIAMETER OF PR PIPE		60 IN
APP	AREA OF PR PIPE		19.6 SF
LPP	LENGTH OF PR PIPE		684 FT
V100D-P-PR	PR ADD 100-YR DETENTION VOLUME PROVIDED		13,430 CF

ITEM DESCRIPTION	QTY	UNIT
60" HDPE Storm Sewer Pipe	684	LFT
4" SCH 40 PVC	165	LFT
Underdrain, 4" Slotted, in Sock	743	LFT
Chimney, Rebuild Brick, Vertical	2	LFT

LEGEND



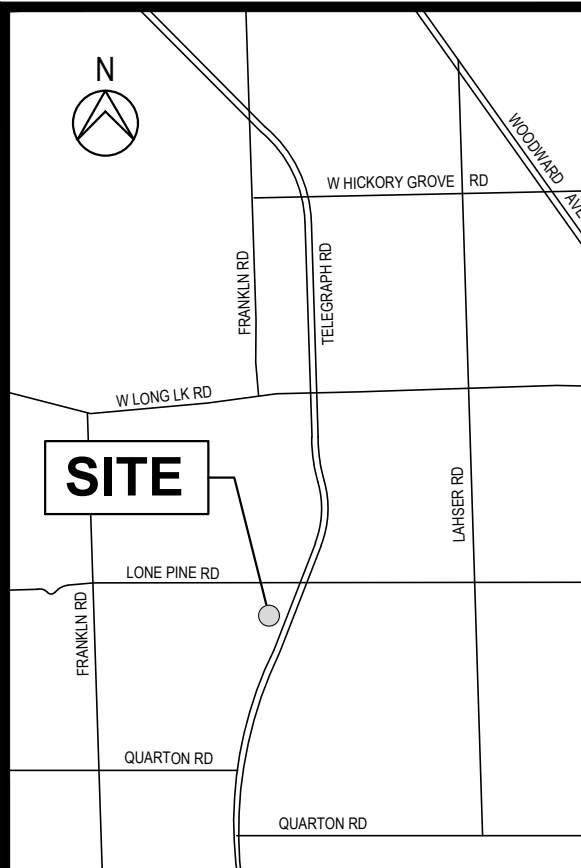
NOTE:
 SEE SHEET C-04, C-11, C-12 & C-13 FOR INSTALLATION OF THE 60" HDPE STORM SEWER DETENTION PIPE.

NOTE:
 ALL EXISTING UTILITIES SHOWN ON THIS TOPOGRAPHIC SURVEY HAVE BEEN TAKEN FROM VISUAL OBSERVATION AND RECORD MAPPING WHERE AVAILABLE. NO GUARANTEE IS MADE, OR SHOULD BE ASSUMED, AS TO THE COMPLETENESS OR ACCURACY OF THE UTILITIES SHOWN ON THIS DRAWING. PARTIES UTILIZING THIS INFORMATION SHALL VERIFY THE ACCURACY AND COMPLETENESS PRIOR TO CONSTRUCTION.



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09-18-2024	ADDENDUM No. 1
09-03-2024	ISSUED FOR BIDS
08-01-2024	OWNER'S REVIEW
07-23-2024	OWNER'S REVIEW
07-15-2024	OWNER'S REVIEW
DATE	ADDITIONS AND/OR REVISIONS
DESIGNED	D.H.
DRAWN	D.H.
CHECKED	K.M.S.
APPROVED	K.M.S.



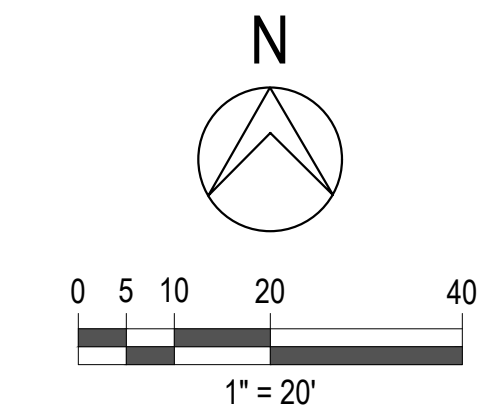
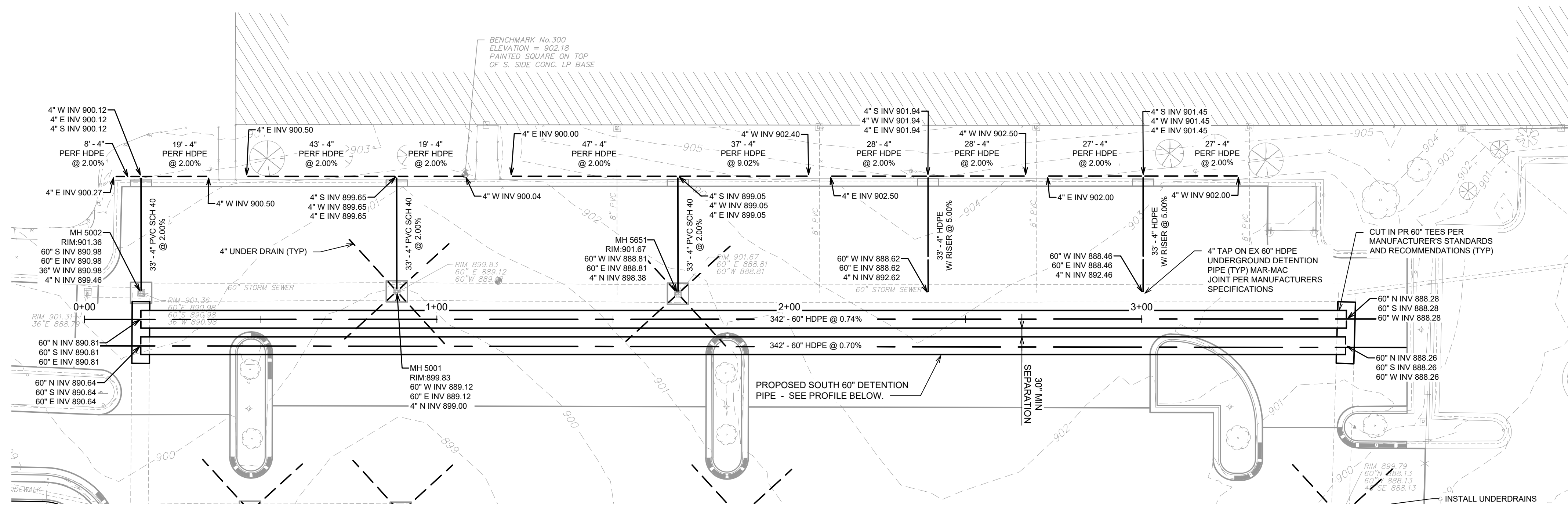
BLOOMFIELD TOWNSHIP

**SENIOR CENTER
 PARKING LOT
 IMPROVEMENTS**

OAKLAND COUNTY MICHIGAN

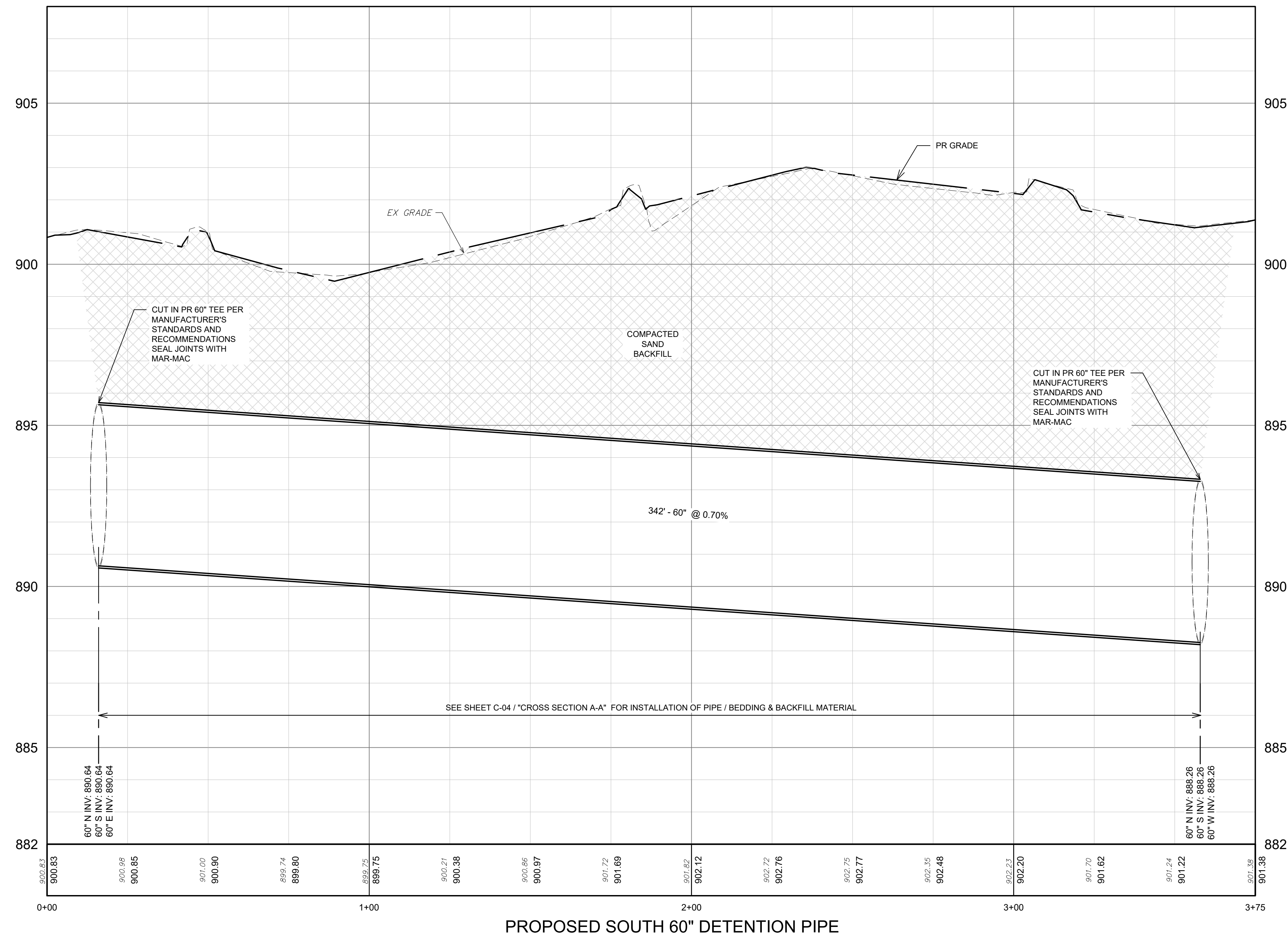
**PROPOSED
 UTILITY PLAN**

HRC JOB NO.	20230762	SCALE	1" = 20'
DATE	March 2024	SHEET NO.	C-11 OF



LEGEND

[Symbol]	EXISTING BUILDING / STRUCTURE
[Symbol]	EXISTING CONCRETE PAVEMENT
[Symbol]	EXISTING ASPHALT PAVEMENT
[Symbol]	EXISTING BRICK SIDEWALK
[Symbol]	EXISTING STORM SEWER AND STRUCTURES
[Symbol]	EXISTING SANITARY SEWER AND STRUCTURES
[Symbol]	EXISTING WATERMAIN AND STRUCTURES
[Symbol]	EXISTING GAS MAIN
[Symbol]	EXISTING UNDERGROUND ELECTRICAL
[Symbol]	EXISTING OVERHEAD ELECTRICAL
[Symbol]	EXISTING UNDERGROUND TELEPHONE
[Symbol]	EXISTING UNDERGROUND FIBER OPTIC
[Symbol]	PR STORM SEWER AND STRUCTURES
[Symbol]	PR 4" SOLID WALL HDPE PIPE
[Symbol]	PR 4" WRAPPED PERFORATED HDPE EDGEDRAIN



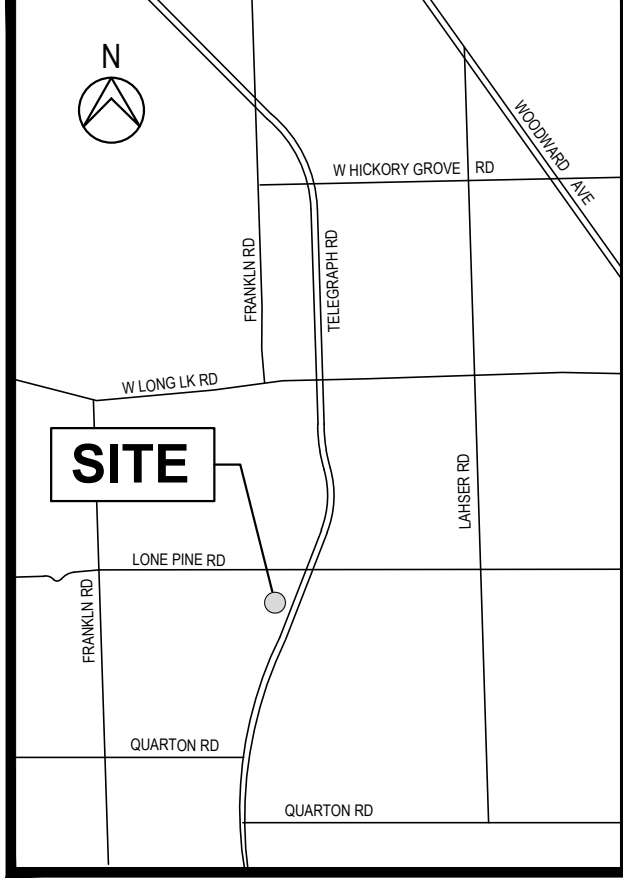
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DRAWN	D.H.
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APPROVED	K.M.S.



BLOOMFIELD TOWNSHIP
SENIOR CENTER
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PROPOSED STORM SEWER PROFILE

HRC JOB NO.	20230762	SCALE	H, 1" = 20' V, 1" = 2'
DATE	March 2024	SHEET NO.	C-13

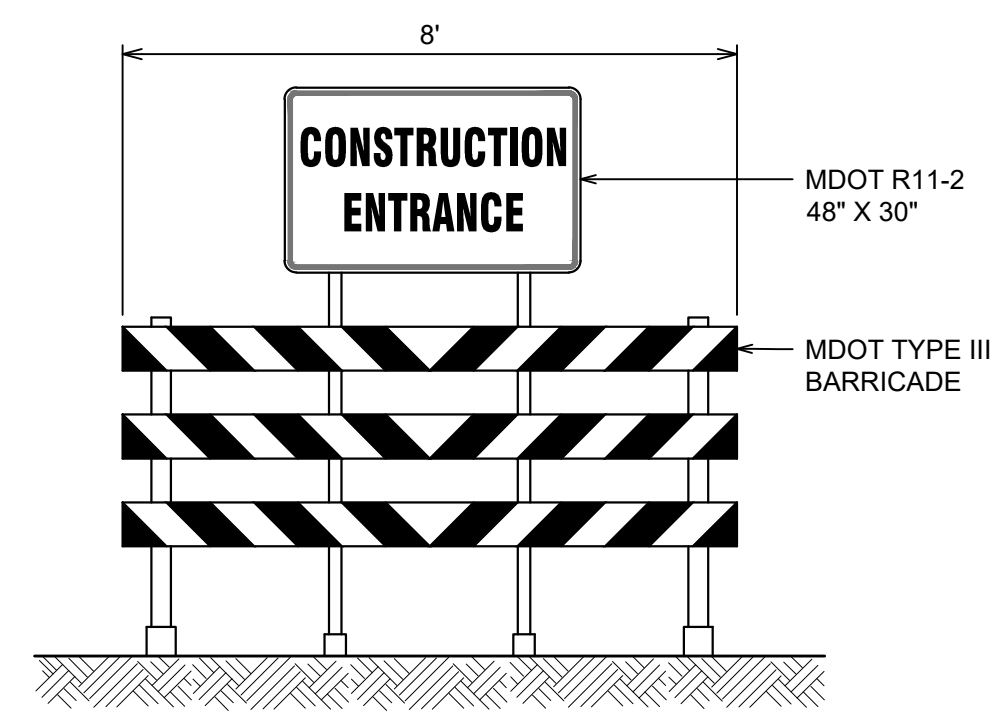
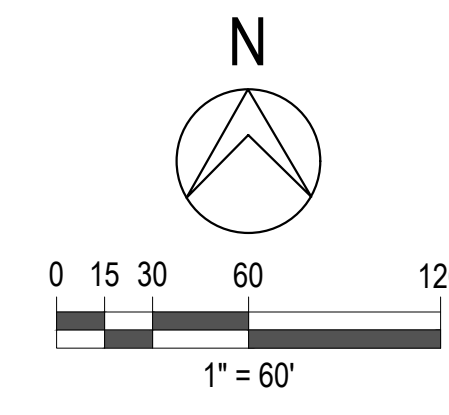
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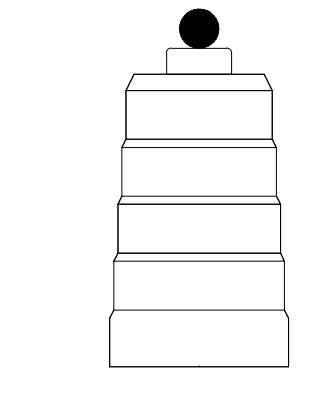
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PHASE 1 TRAFFIC MANAGEMENT PLAN



TYPE III BARRICADE AND R11-2
NOT TO SCALE



PLASTIC DRUM
NOT TO SCALE

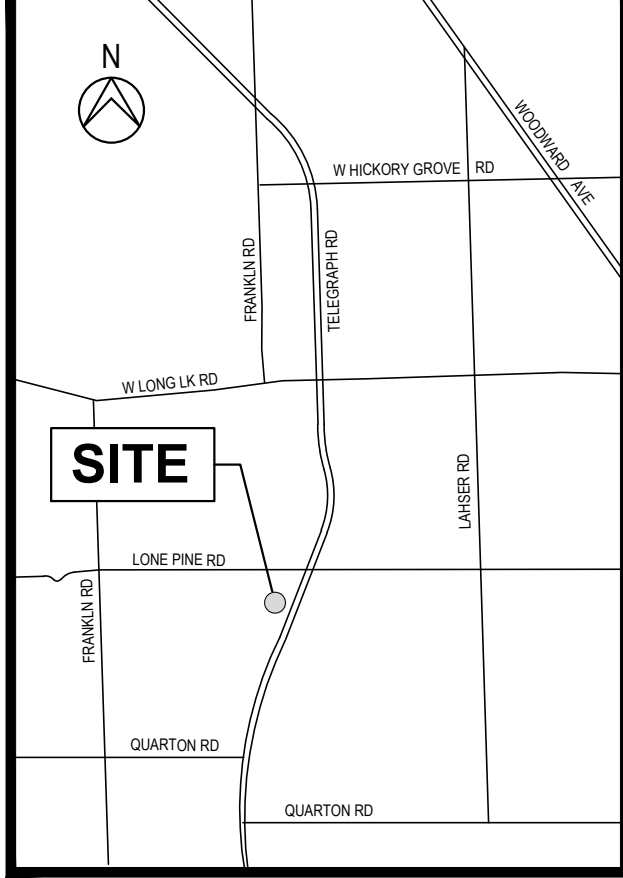
LEGEND

- X — PROPOSED PHASE CONSTRUCTION FENCING
- TRAFFIC BARREL
- ○ TYPE III BARRICADE
- ▲ PEDESTRIAN BARRICADE
- SIGN, PORTABLE, MESSAGE BOARD



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SENIOR CENTER PARKING LOT IMPROVEMENTS
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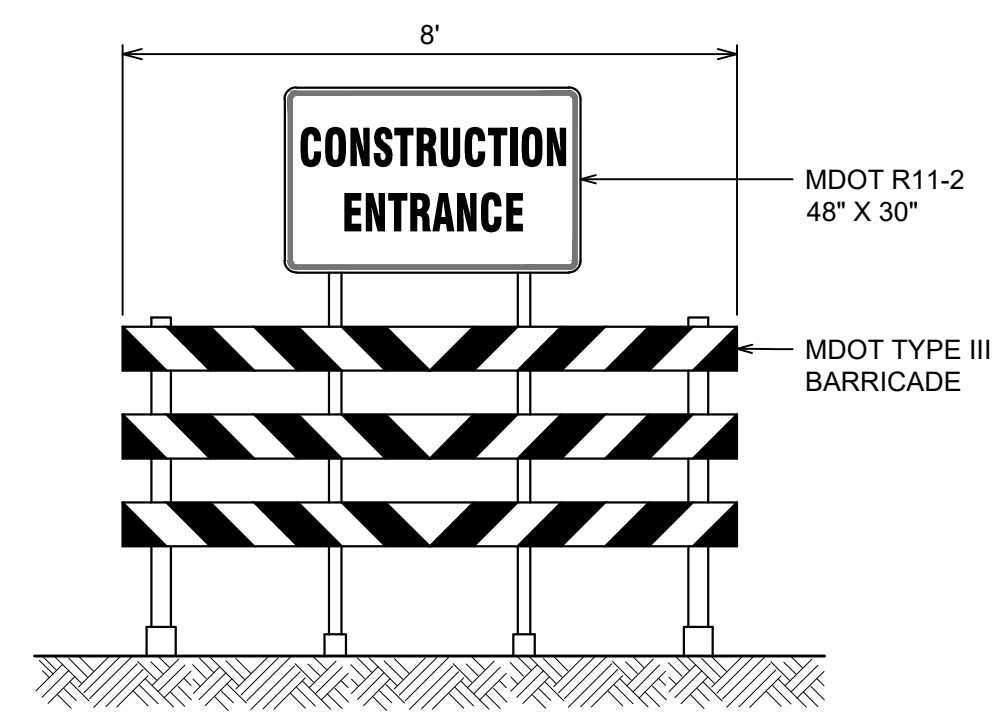
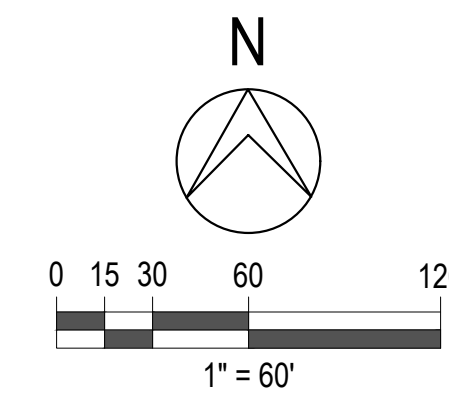
TRAFFIC MANAGEMENT PHASE 1

HRC JOB NO. 20230762	SCALE 1" = 60'
DATE March 2024	SHEET NO. C-15 OF

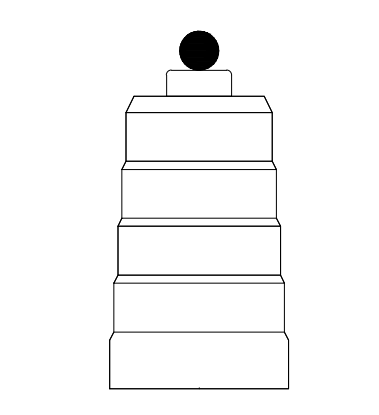
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PHASE 2 TRAFFIC MANAGEMENT PLAN



TYPE III BARRICADE AND R11-2
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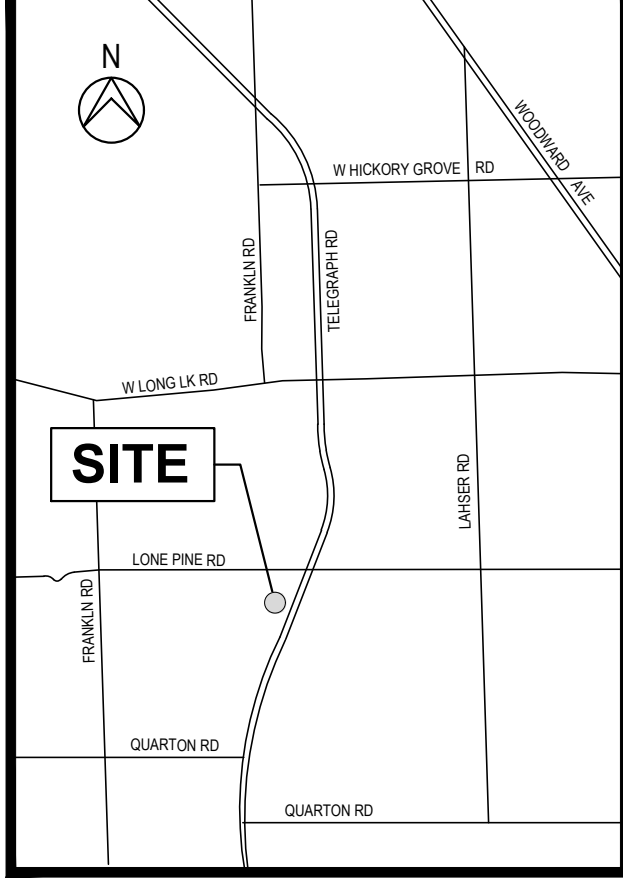
LEGEND

- X — PROPOSED PHASE CONSTRUCTION FENCING
- TRAFFIC BARREL
- ○ TYPE III BARRICADE
- △ PEDESTRIAN BARRICADE
- SIGN, PORTABLE MESSAGE BOARD



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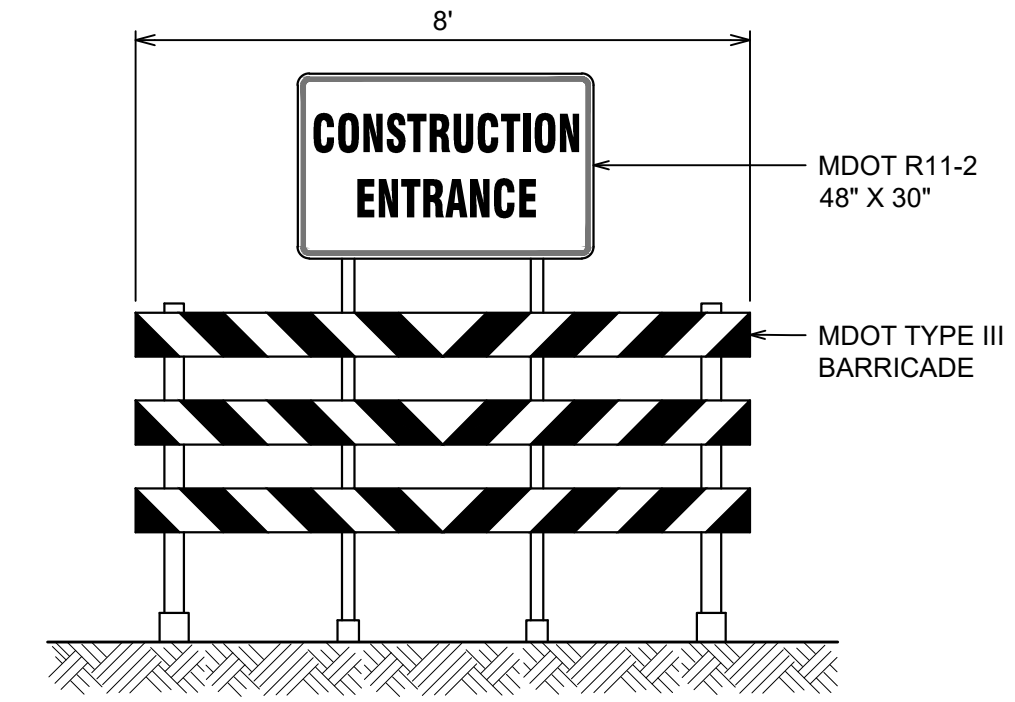
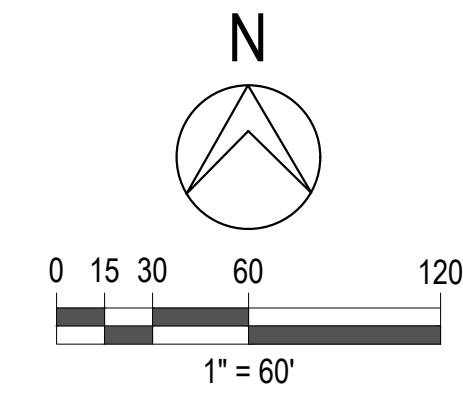
TRAFFIC MANAGEMENT PHASE 2

HRC JOB NO. 20230762	SCALE N.A.
DATE March 2024	SHEET NO. C-16 OF

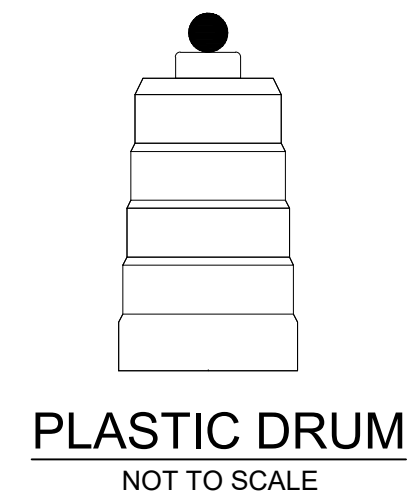
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PHASE 2 TRAFFIC MANAGEMENT PLAN



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LEGEND

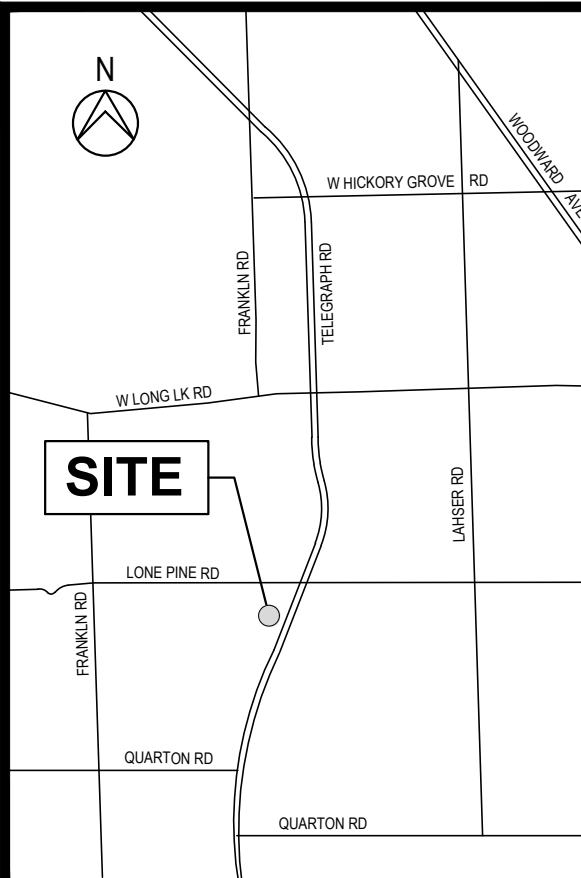
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- TRAFFIC BARREL
- TYPE III BARRICADE
- PEDESTRIAN BARRICADE
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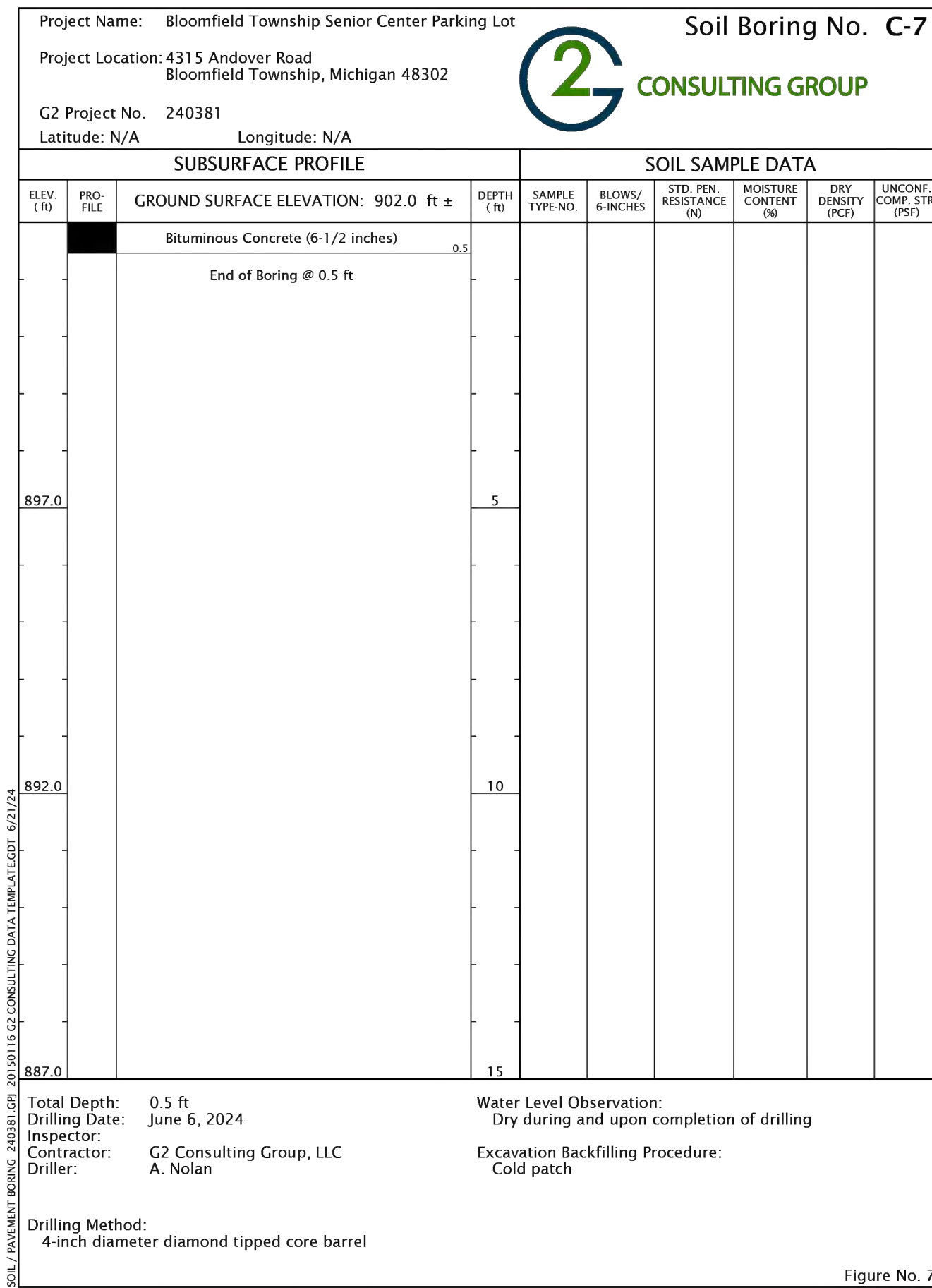
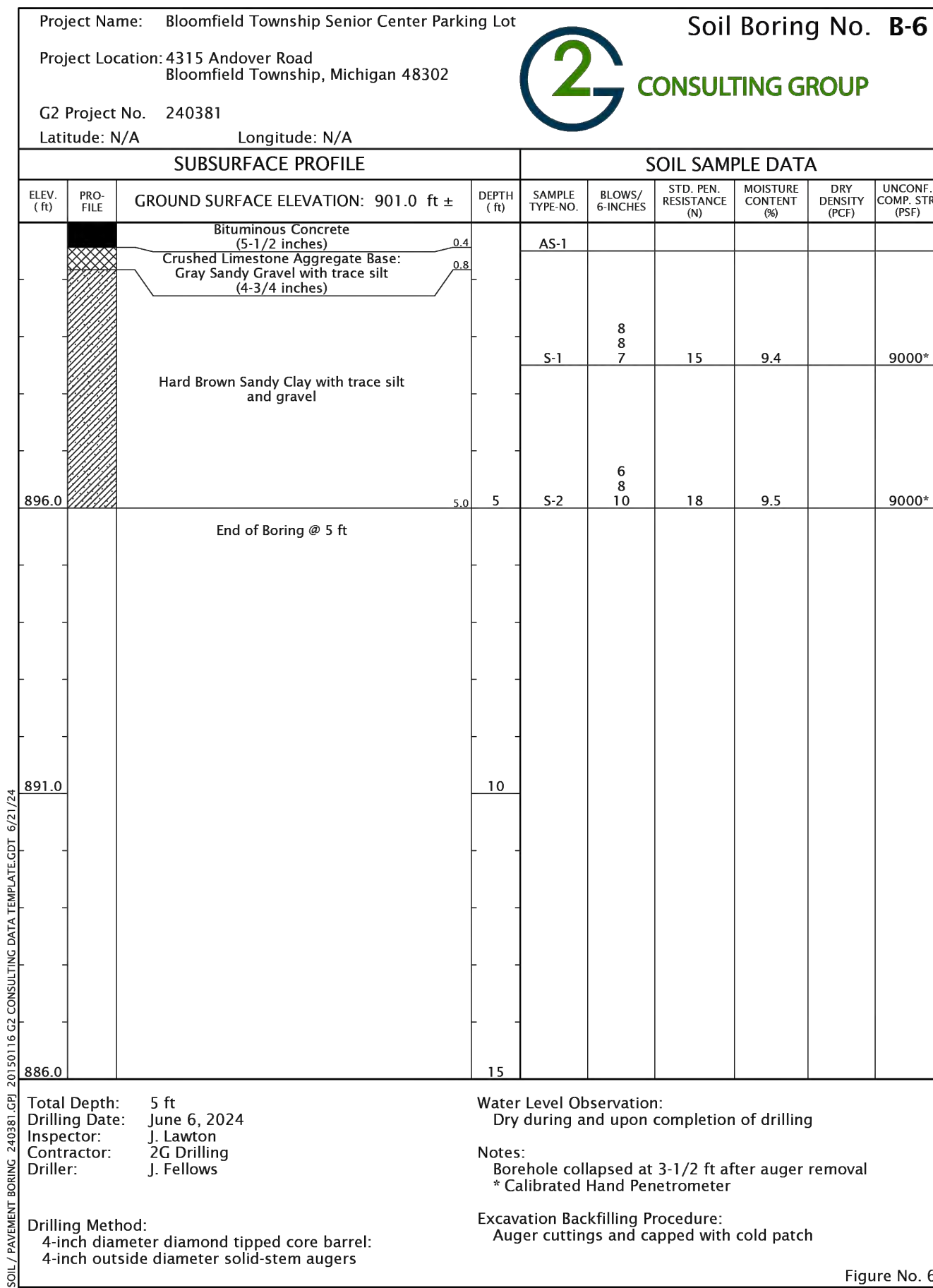
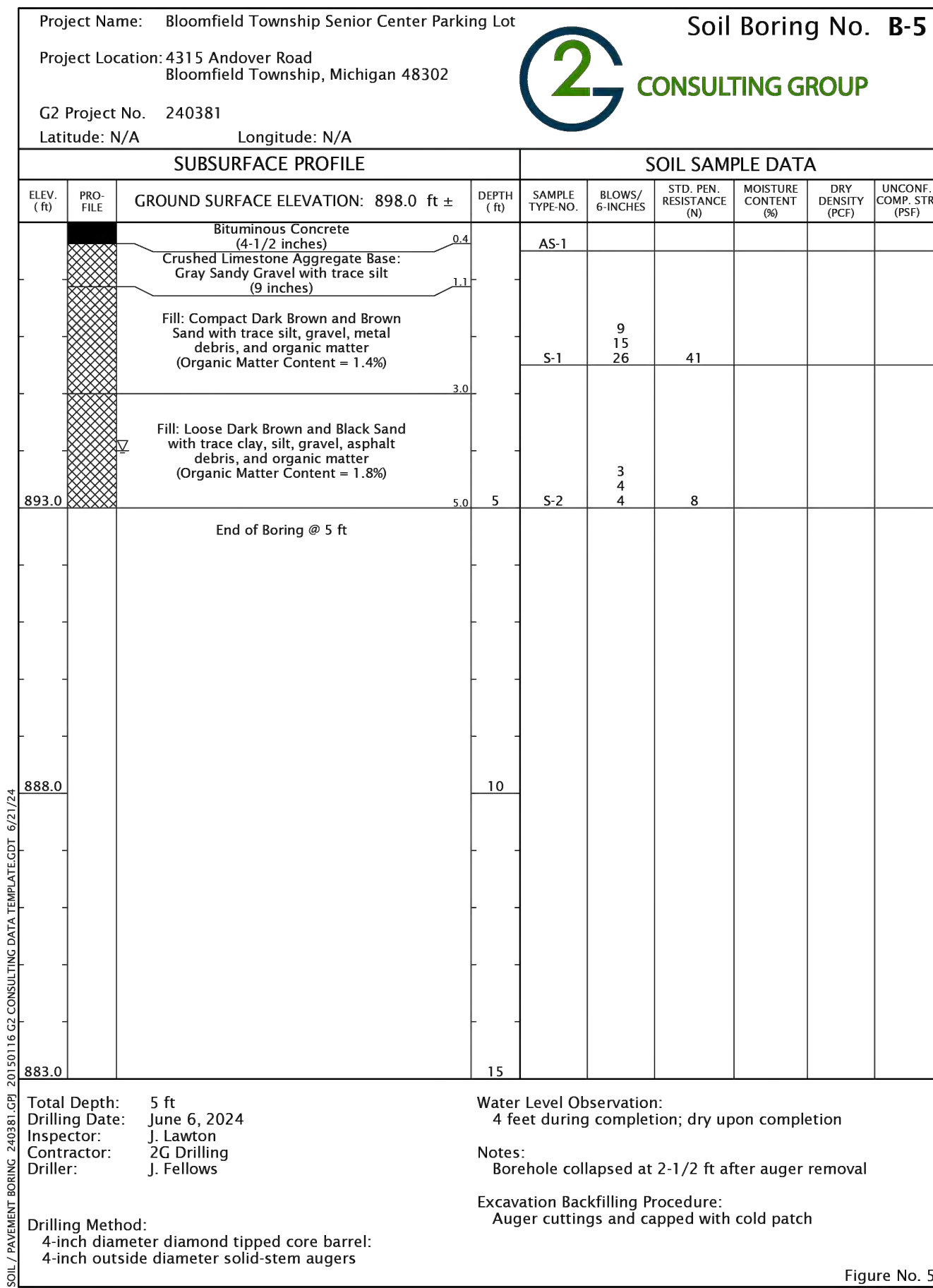
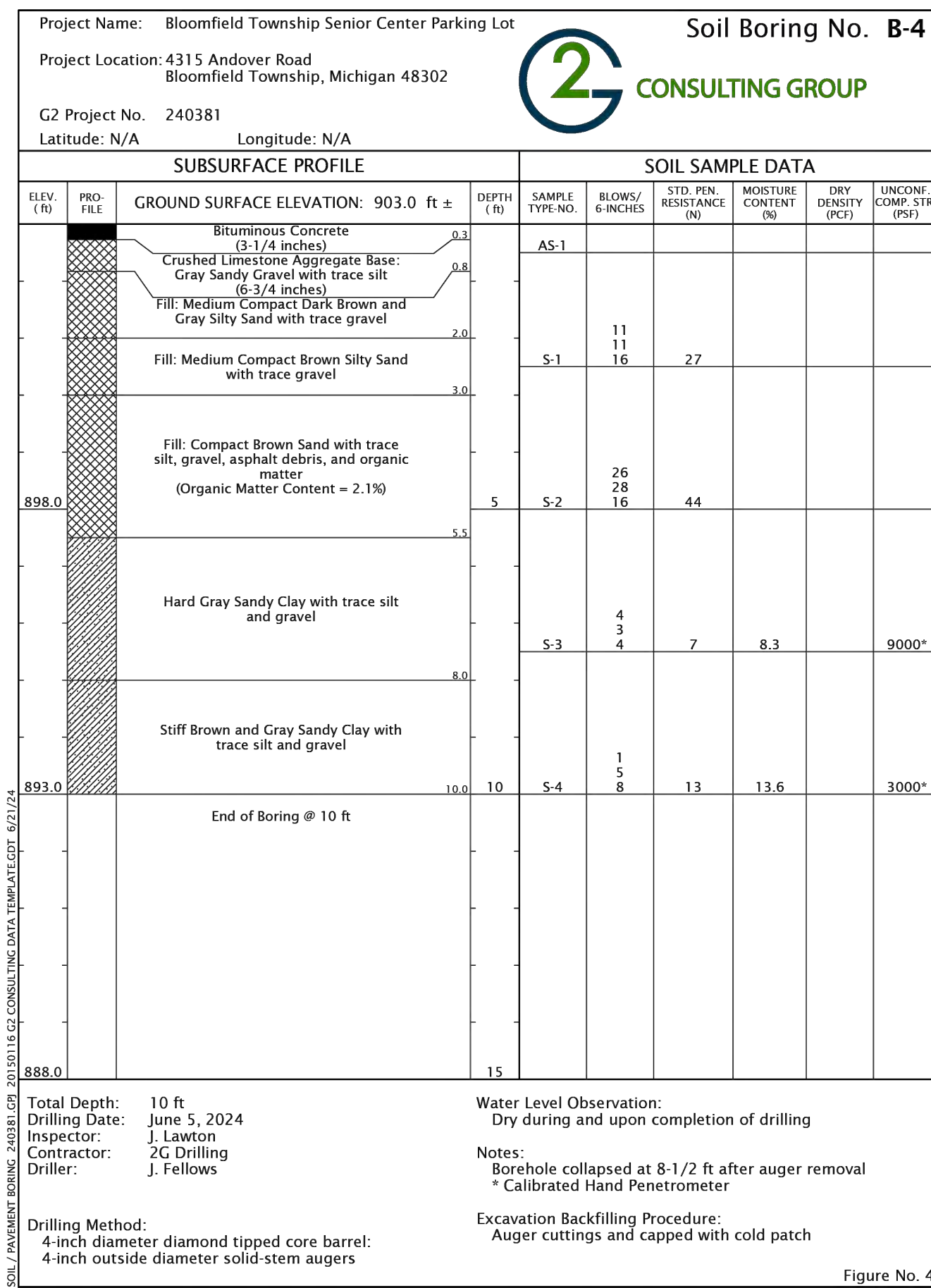
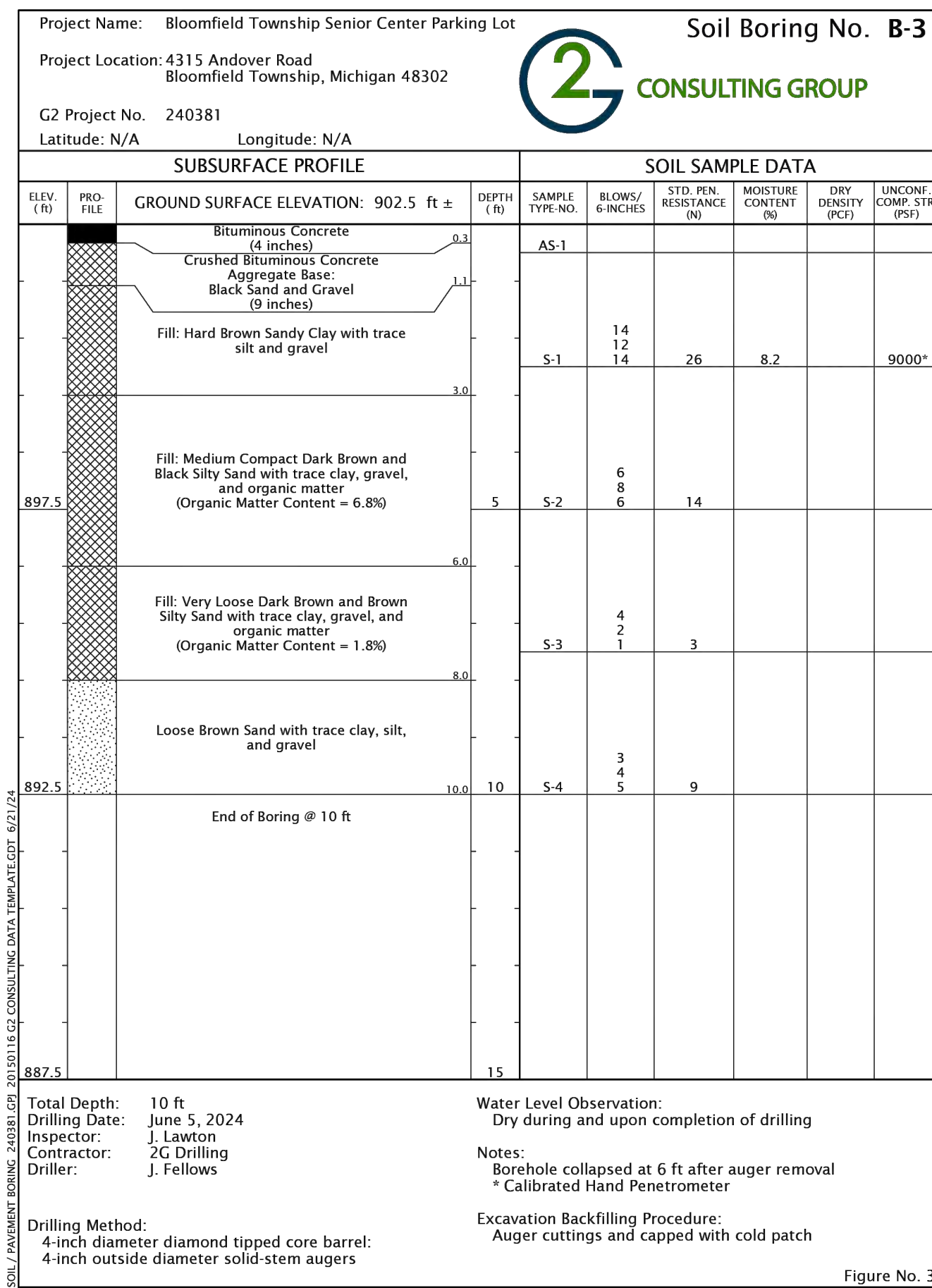
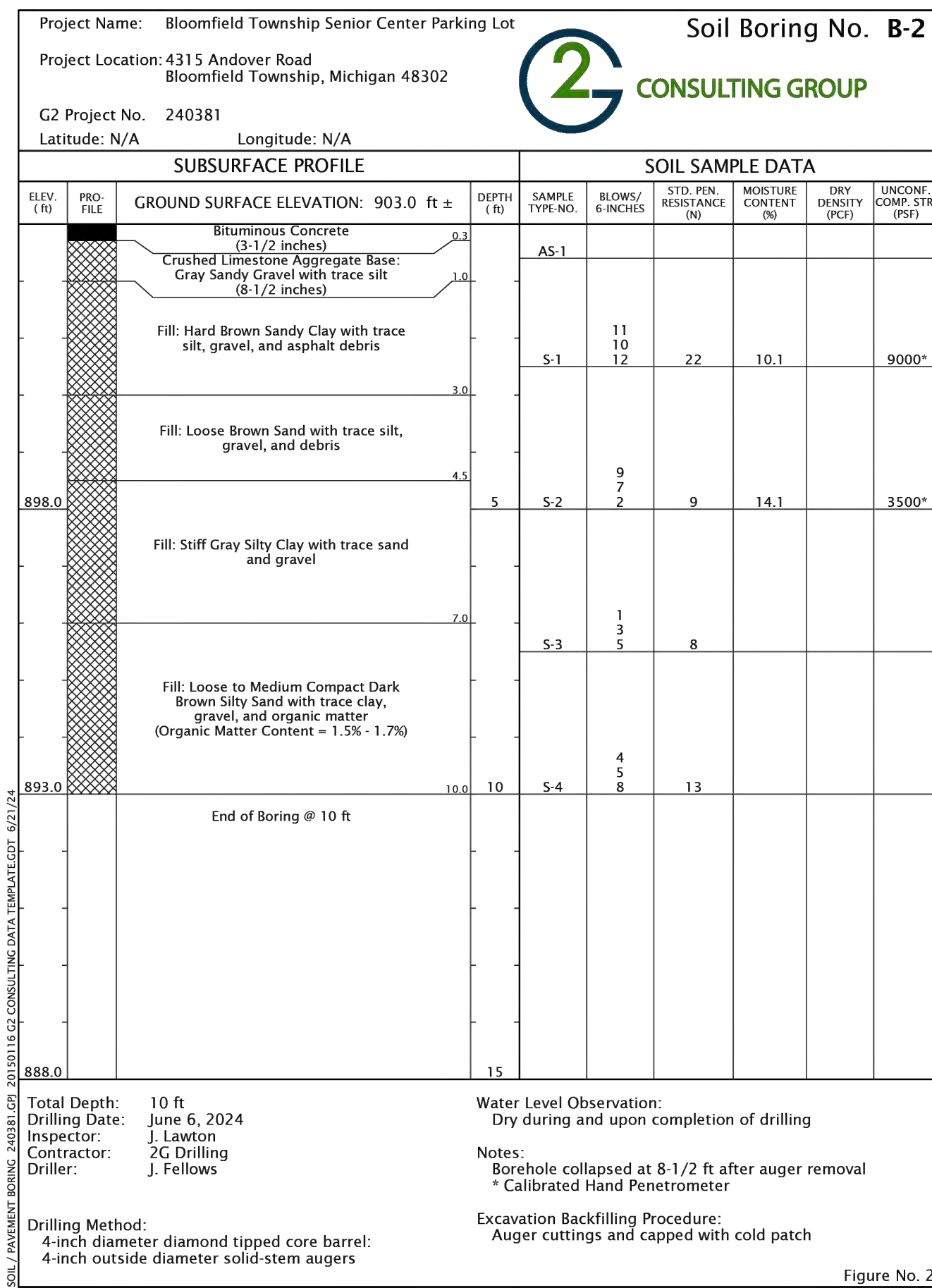
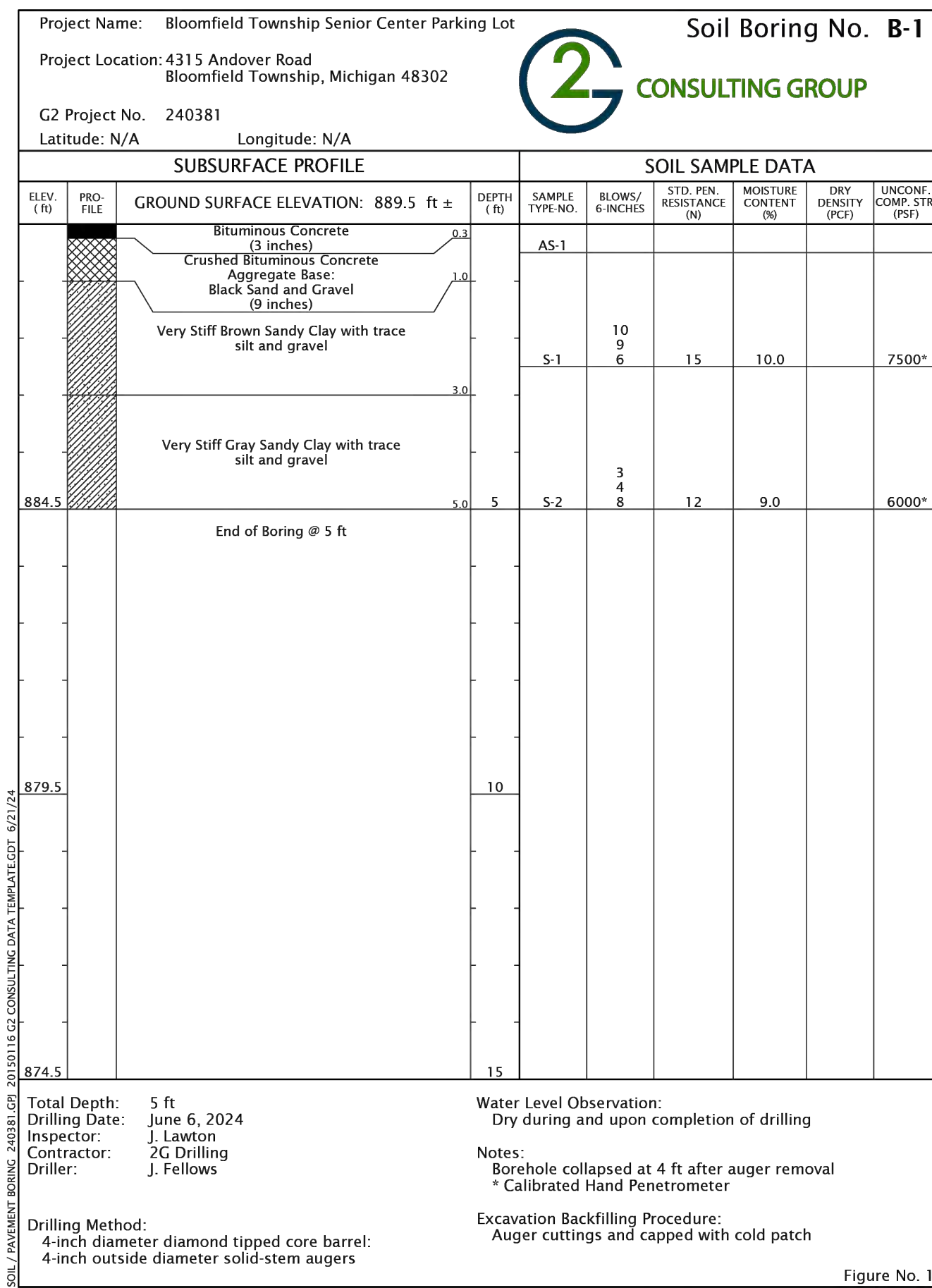
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SENIOR CENTER PARKING LOT IMPROVEMENTS
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TRAFFIC MANAGEMENT PHASE 3

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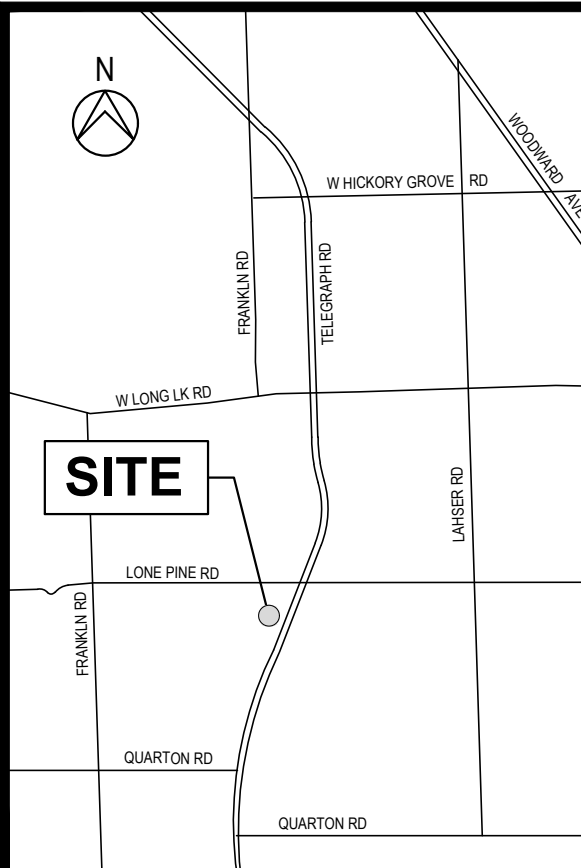


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PARKING LOT
IMPROVEMENTS

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SITE
SOIL BORING
DATA

HRC JOB NO.	SCALE
20230762	1" = 20'
DATE	SHEET NO.
March 2024	C-18